

COMMITTEE WORKSHOP
BEFORE THE
CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION

In the Matter of:)	
)	
Preparation of the 2007 Integrated)	Docket No.
Energy Policy Report)	06-IEP-1
)	
and)	
)	
Implementation of Renewables Portfolio)	
Standard Legislation (Public Utilities))	
Code sections 381, 383.5, 399.11)	Docket No.
through 399.15, and 445; [SB-1038],)	03-RPS-1078
[SB-1078])	
)	

CALIFORNIA ENERGY COMMISSION

HEARING ROOM A

1516 NINTH STREET

SACRAMENTO, CALIFORNIA

THURSDAY, JULY 6, 2006

1:10 P.M.

Reported by:
Peter Petty
Contract No. 150-04-002

PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

COMMISSIONERS PRESENT

Jackalyne Pfannenstiel, Presiding Member

John Geesman, Associate Member

ADVISORS PRESENT

Timothy Tutt

Melissa Jones

STAFF and CONTRACTORS PRESENT

Pamela Doughman

ALSO PRESENT

John Bohn, Commissioner
Stephen St. Marie, Advisor
California Public Utilities Commission

Brian Prusnek
California Governor's Office

Ric O'Connell
Black and Veatch

Pedro Pizarro
Southern California Edison Company

Fong Wan
Pacific Gas and Electric Company

Terry Farrelly
San Diego Gas and Electric Company

Mohamed Beshir
Los Angeles Department of Water and Power

Valerie Beck
California Public Utilities Commission

Jan Hamrin
Center for Resource Solutions

ALSO PRESENT

Greg Morris
Green Power Institute

Steven Kelly
Independent Energy Producers Association

Rick Counihan
Ecos Consulting
Alliance for Retail Energy Markets

Dan Adler
California Clean Energy Fund

Nancy Rader
California Wind Energy Association

Doug Wickizer
California Department of Forestry and Fire
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V. John White
Center for Energy Efficiency and Renewable
Technologies

Cliff Chen
Union of Concerned Scientists

Jeff Lam
Powerex

Juan Sandoval
Imperial Irrigation District

John Galloway
Union of Concerned Scientists

Bob Burton
Insulation Contractors Association

David Withrow
Robin Smutny-Jones
Dave Hawkins
California Independent System Operator

Jim Avery
San Diego Gas and Electric Company

ALSO PRESENT

Rich Ferguson
Center for Energy Efficiency and Renewable
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Greg Morris
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Kevin Dasso
Pacific Gas and Electric Company

Gilbert Tam
Southern California Edison Company

Tony Braun
California Municipal Utilities Association

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1 P R O C E E D I N G S

2 1:10 a.m.

3 ASSOCIATE MEMBER GEESMAN: I want to
4 welcome all of you to our workshop today.
5 Commissioner Pfannenstiel will be joining us
6 shortly. She's been called away to a transmission
7 operations meeting in the Governor's Office.

8 This is a Committee workshop for the
9 Energy Commission's Integrated Energy Policy
10 Report Committee. I'm John Geesman, the Associate
11 Member of that Committee.

12 We're joined today, and hopefully will
13 be throughout this year's IEPR cycle, by
14 Commissioner John Bohn from the Public Utilities
15 Commission.

16 Our purpose is to conduct, over the
17 course of the next several months, the mid-course
18 review that the Energy Commission's Integrated
19 Energy Policy Report adopted last November
20 recommended for the RPS program.

21 I think the RPS program obviously has a
22 lot of interest, based on the attendance today.
23 I'm sure that you're aware of that. The Energy
24 Commission's 2005 IEPR expressed concern as to
25 whether or not we were on a trajectory to achieve

1 the 2010 goals that had been set for the program.

2 I think there are a lot of different
3 perspectives to be taken to whether we're on that
4 trajectory or not; what the appropriate
5 structuring of the program should be. I want to
6 encourage as much diversity of viewpoint and
7 candor as we can muster today.

8 I think we're probably all united, and I
9 know both Commissions certainly are, in the
10 desirability of meeting those goals. And if the
11 program needs some recalibration or reorientation
12 to better equip us to do so, that's our objective.

13 So, you're likely to hear some critical
14 comments, because I'm here some caustic comments,
15 but I think what does unite all of us is a desire
16 to see the program succeed, and to achieve what
17 are, in fact, the most aggressive goals for
18 renewable energy set anywhere in the United
19 States.

20 Commissioner Bohn, do you have anything
21 to open with?

22 COMMISSIONER BOHN: Thank you, John.
23 Just a couple of comments. I would certainly
24 concur in what Commissioner Geesman said.

25 This is a complex process. We're making

1 progress. There are a number of obstacles yet to
2 deal with. And we're working through them. And I
3 want to thank all of you here today for your
4 comments and criticisms and suggestions not only
5 today, but going forward.

6 I think we are united in the objectives.
7 I think there's some really knotty kinds of issues
8 as to what the best way to achieve those
9 objectives would be. And I would also encourage
10 candor. I may not be as caustic as Commissioner
11 Geesman, but I like to think that we will be as
12 interested and as focused on getting real answers
13 as Commissioner Geesman and his colleagues will
14 be. Thank you.

15 MS. DOUGHMAN: I need to give you just a
16 few housekeeping items before we begin. For those
17 who are not familiar with this building, the
18 closest restrooms are located over this direction.
19 There's a snack bar on the second floor.

20 Lastly, in the event of an emergency and
21 the building is evacuated, please follow our
22 employees to the appropriate exits. We will
23 convene at Roosevelt Park located diagonally
24 across the street from this building. Thank you.

25 And, Ric O'Connell.

1 MR. O'CONNELL: Thanks, Pam. Thanks,
2 Commissioner Geesman, Commissioner Bohn. I'm in
3 the unenviable position of presenting a lot of
4 other people's work. So, I'm just here to sort of
5 set the stage, if you like. I'm feeling deja vu,
6 I did this last week, as well, at the credit
7 requirements workshop that was held.

8 And just give you briefly, and luckily,
9 because I don't know a lot about these topics, it
10 will be brief, what's been going on in the last
11 year. I'm going to brief to you three contractor
12 reports; take a look at some of their recent IOU
13 contracting efforts. And look at some of the
14 other issues we'll be delving into in more depth
15 today.

16 So the first report I'm going to talk
17 about is the preliminary stakeholder evaluation.
18 This report came out in about August of 2005. It
19 was highly recommended. I can't do it justice in
20 the two slides that I have to talk about it.

21 There's 21 stakeholder interviews. It
22 looked at sort of the overall design and the
23 process of the RPS. Some experience with IOU
24 contracting which we're going to talk about. Some
25 of the deliverability rules. And then generally

1 the report findings.

2 And I think all of this is summarized in
3 one of the reports that's out there, that the RPS,
4 like the state, is unique in its design and
5 complexity. Implementation has been slow,
6 however, I mean, I think to be fair, you know, the
7 IOU contracting efforts have been spinning up.
8 You know, RPS has really only been in place for a
9 short time.

10 There's a lot of everybody seems to
11 agree that there's challenges and problems. No
12 one seems to agree how to fix them.

13 The next report is one that I actually
14 did work on. This is the building of margin of
15 safety or the contract failure report. And in
16 this report we looked at historical experience in
17 California with QF contracts, the turn of the
18 century CEC incentive options, some of the earlier
19 RPS contracting.

20 We also looked at about 3000 megawatts
21 of contracts from 21 North American utilities in
22 the last couple of years. And then we looked at
23 some auctions and other contracting efforts in
24 places like France, the U.K., Massachusetts and
25 New York.

1 So I'm sorry for the small type, but our
2 findings were that really at minimum you should
3 expect a contract failure rate of 20 to 30
4 percent. However, we really found it very
5 difficult to see sort of a uniform contract
6 failure rate. I mean there were some utilities
7 that had no contract failure; there were some that
8 100 percent.

9 And all the reasons, and there's many
10 many reasons that contracts fail, all of which
11 really apply in California to things like siting,
12 transmission, permitting.

13 So we had some recommendations in that
14 report. And the recent PUC Matson decision. I
15 think the PUC declined to sort of mandate a quote-
16 unquote "margin of safety". But IOUs are taking
17 their own sort of steps to mitigate contract
18 failure.

19 The third report was the publicly owned
20 utility. I think there was a feeling among many
21 stakeholders that sort of the POUs were a little
22 bit behind the IOUs in their efforts towards
23 renewables. And I think this report kind of, you
24 know, laid that issue to rest in many ways.

25 You know, obviously POUs have different

1 targets; they may have different deliverability
2 rules, resource eligibility rules. But in many
3 ways the POU -- the RPS targets are more
4 aggressive than IOU targets. And I think it's
5 pretty interesting that about 98 percent of the
6 total load, those publicly owned utilities, folks
7 like LADWP and SMUD, have established RPS targets.

8 There's been some recent activity.
9 LADWP just announced a contract from some wind in
10 Wyoming. So obviously we have deliverability
11 going on there. And I think Silicon Valley also
12 has some contracting. And I think all told, about
13 1000 megawatts of renewables are under contract to
14 publicly owned utilities in the state.

15 So just to get you up to date on the
16 recent contracting efforts from the three IOUs,
17 about 2500 to 4000 megawatts of new capacity has
18 been under contract. It's about 69 percent of the
19 2004 load. Obviously we're still waiting to see
20 in contracts from Edison and San Diego Gas and
21 Electric from their 2005 and obviously 2006 RFOs
22 are just coming out now.

23 There's still just a small amount of,
24 this is actually in operation, about 240
25 megawatts. So, even though there's a lot of

1 contracts, there hasn't been a lot of operational
2 projects, and I think we'll see some more projects
3 coming online.

4 And I apologize that this graph really
5 didn't come out very well in the printout. But
6 this just sort of shows the range of each of the
7 IOUs from a -- I think a lot of this is from the
8 Sterling, the SES contracts that have, you know,
9 sort of a 500 to 800 megawatt buildout.

10 And this graph didn't come out at all on
11 the printout. And that's because it's secret
12 data.

13 And this is just showing what we see as
14 quote-unquote "contract failure" within the RPS
15 contracting to date. And Edison has that big red
16 bar of delayed, and I think that's because of
17 their announcement that a lot of their projects,
18 especially in the Tehachapi area, are going to be
19 delayed because of transmission. But you can see
20 that there's just sort of a small amount of
21 projects actually online.

22 And we also looked at the RFO timelines.
23 This is the number of months between the release
24 of the RFO and the first advice letter filing. So
25 we can see that timeline started out pretty high

1 around sort of 10 to 19 months for 2003, 2004
2 RFOs. But things have gotten quicker. We're sort
3 of at eight-plus months, eight or nine months for
4 2005 and everybody's goal for 2006 is five months.
5 So it seems like the process is getting more
6 streamlined; the procurement process is moving
7 quicker.

8 I'm not going to talk to you much about
9 transmission because I think we're going to go
10 into depth into that today. But I think most
11 people agree, it seems to be one of the biggest
12 barrier to meeting RPS goals. The ISO is here
13 today and is going to be speaking on that.

14 And, of course, the PUC has done some
15 important work on that. Some, you know, backstop
16 cost recovery, recent, and some other things. So
17 we're going to talk about this more today.

18 Deliverability. One of the
19 recommendations from the stakeholder report was to
20 loosen deliverability requirements. And I think
21 in the 2005 RFOs that extended from IOU service
22 territory to the entire ISO. And in 2006 that
23 went to the entire California grid, though we're
24 not quite sure what that means.

25 The CEC has done some clarification of

1 out-of-state delivery. And then the PUC has
2 opened a proceeding on RECs. So, there's things
3 happening in this.

4 Everybody wants to know about WREGIS.
5 So, WREGIS is moving forward. The CEC is right
6 now using an interim tracking system. WREGIS is
7 sort of a collaborative effort with WECC and the
8 Western Governors Association. There was a recent
9 RFP. I think the latest update is -- yes, it's
10 here on the slide, notification of intent to award
11 in July. So WREGIS is moving forward, which is
12 good. And will obviously help with RECs and
13 deliverability issues.

14 Transparency. In the 2005 IEPR
15 stakeholders talked about transparency as being an
16 issue in the RFO process and the RPS process. The
17 recent Matson decision actually asked utilities to
18 report more clearly on their evaluation criteria,
19 and also to have an independent evaluator. So
20 we'll be talking, I think, more about these issues
21 today.

22 The market price referent and SEPs. The
23 stakeholder report actually recommended having an
24 escrow account. One of the concerns that many
25 developers have is that SEPs aren't going to be

1 bankable and you're not going to be able to
2 finance a project based on SEP income stream.
3 That hasn't happened.

4 And there was also the more sort of
5 provocative recommendation to just abolish the
6 whole MPR and SEP issue together. So I don't know
7 if we'll be going down, talking about that today.

8 But, you know, the MPR methodology did
9 change this year. There's no longer a proxy
10 peaker unit. There's now time of delivery based
11 on the baseload. The MPRs for 2005 are around
12 \$80. So we'll be, I'm sure, addressing more of
13 these issues later on.

14 And there's other issues, if you want to
15 take a look at the report that was prepared for
16 this workshop. We sort of talk about some of
17 these other issues like who owns RECs for
18 distributed generation; you know, how compliance
19 reporting is done; how -- you know, some more
20 issues on contract failure.

21 I'm not sure if there are going to be
22 any conclusions from me, because this is more for
23 what's going to happen today. But I think
24 everyone agrees that reaching 20 percent due to
25 transmission and other challenges is going to be

1 quite difficult.

2 There still needs to obviously be some
3 kind of compliance for all the other small little
4 folks, not just IOUs and POUs. And so I think
5 it's good that we have both the PUC and the CEC
6 here today in this workshop. And so hopefully
7 we'll be able to work through some of these
8 significant issues.

9 Thanks very much.

10 MS. DOUGHMAN: Okay, we now will move on
11 to some summaries from the investor-owned
12 utilities and Los Angeles Department of Water and
13 Power regarding RPS progress and issues.

14 The first on the agenda is Pedro
15 Pizarro. You can either speak -- come up here, or
16 from the table, whichever you prefer.

17 MR. PIZARRO: (inaudible).

18 MS. DOUGHMAN: Okay.

19 MR. PIZARRO: Well, good afternoon,
20 Commissioners and everybody in attendance. Wanted
21 to thank you for the opportunity to speak about
22 this important topic. And I'm glad to see this
23 type of joint interaction among both the PUC and
24 the CEC.

25 We at SCE, I think, as you know, are

1 working very hard to achieve the 20 percent
2 renewables target by 2010. We've been upfront
3 about the fact that there are some challenges to
4 that. And we expect that we'll have sufficient
5 energy under contract. But the question is
6 whether or not there'll be sufficient energy
7 actually delivering by the 2010 timeframe.

8 And I think the issues that will be
9 discussed here today cut to some of the challenges
10 that we all have in meeting the renewable
11 procurement standard.

12 But on the SCE side we have increased
13 our staff and we're continuing to add resources to
14 handle our extensive renewable procurement
15 activities. This is a large and complex
16 undertaking, and one that we take very seriously.

17 In 2005 SCE purchased or produced nearly
18 13,000 gigawatt hours of renewable power. And
19 that was around 17.2 percent of our bundled retail
20 sales.

21 We buy more renewable energy than any
22 other utility in the country, or frankly than any
23 other state in the country. And we buy something
24 like one-sixth of all renewable kilowatt hours in
25 the United States.

1 We completed our 2002 and 2003
2 solicitation successfully, signing 13 contracts
3 with renewable projects. And those contracts will
4 deliver somewhere between 960 and 1700 megawatts
5 of capacity. The 960 are the initial deliveries,
6 and we have options for up to 1700.

7 Now, those 13 contracts, 11 of them are
8 with new projects, delivering new, new steel in
9 the ground. And that's expected to yield 700 to
10 1500 megawatts. We are very committed to taking
11 every reasonable action to get these projects
12 operational. We're monitoring them very hard
13 through our contract administration activities.
14 And we want them up and running as soon as
15 possible, delivering kilowatt hours and spinning
16 the meter.

17 And we are currently finalizing
18 negotiations with our short list of bidders from
19 our 2005 solicitation. We expect to complete
20 those contracts and have them in front of the PUC
21 in this quarter. And we also expect to launch our
22 2006 solicitation a week from tomorrow. So
23 there's a lot going on and will continue to be a
24 lot going on.

25 Meanwhile, on the CPUC side we have to

1 acknowledge that there's been just a tremendous
2 amount of work in partnership with the CEC and
3 other agencies to diligently implement the
4 renewable portfolio standard. And if I have a
5 single message for today it is that this is,
6 again, a massive undertaking. I think all the
7 pieces are in place. There are some course
8 corrections, but overall we need to stay the
9 course in order to let the program work, and the
10 utilities and other parties do the contracting to
11 achieve the goals of the program.

12 The PUC has issued more than 15
13 decisions; more than 11 rulings and three
14 proceedings to implement various aspects of the
15 renewable portfolio standard. And so really now
16 is the time to allow these orders to be
17 implemented to see how well they will work. And
18 abandoning these efforts by making major mid-
19 stream changes, as opposed to course corrections,
20 will only delay progress towards the state goals.

21 Now, at SCE we are also taking
22 independent actions to facilitate renewable
23 development. We are seeking developer input so
24 that we can find, quote-unquote, "the next
25 Tehachapi." That is, finding other areas where

1 renewable projects are likely to be developed if
2 transmission is built. And having upfront
3 visibility to where those areas are will help us
4 in our planning efforts, and particularly with
5 transmission.

6 Now, in order to try to stimulate
7 greater response from renewable developers and a
8 more rapid contracting process -- and we
9 acknowledge that the process has been slow
10 initially; it's sped up and we'd like to see
11 continued fine-tuning of that -- we are evaluating
12 revisions to our contract terms and conditions.

13 And we sought and have received
14 tremendous amount of valuable input from bidders
15 individually. We've received it through our
16 workshop that we held in May with a number of
17 potential bidders. And most recently the workshop
18 in this very room last week on contracting and
19 credit issues was a very helpful exercise. We've
20 already taken some of those input to heart and
21 expect to be pushing some changes in our terms and
22 conditions.

23 Now, we are also pushing very hard to
24 develop the Tehachapi transmission project, with
25 the first segment expected to be online by the end

1 of 2008; and more segments and phases through the
2 following years.

3 We're also working with regulators and
4 with the ISO to improve the interconnection
5 process and to facilitate the development of
6 needed transmission.

7 Some examples. In 2005 we sought
8 authority for a renewable trunkline process at
9 FERC. Unfortunately, FERC rejected our proposal,
10 but we were very heartened last week when we saw
11 that the ISO whitepaper that came out promises to
12 reconsider this type of structure. And we think
13 it is a good balancing out, allowing the
14 development of these trunklines to areas that are
15 renewable-rich areas.

16 We also filed an advice letter 1950 at
17 the PUC. And we gained, through that advice
18 letter, CPUC authority to fund interconnection and
19 environmental studies for renewable projects that
20 have contracts in hand. And that avoided a one-
21 year delay in the regulatory approval process,
22 which is a great thing in order to expedite the
23 process.

24 We're also advancing the cost of
25 transmission interconnection studies and

1 environmental studies, again for projects with
2 contracts. And continuing to look for ways to
3 improve and expedite the whole renewable
4 procurement process.

5 We're also providing some ideas to the
6 PUC and others on how to improve some of the
7 ancillary processes like the permit-granting
8 process. Looking for ways to eliminate
9 duplication of activities and expedite the overall
10 approach.

11 So, a lot has taken place. We've made
12 some good progress. There's more work that needs
13 to be done, both by ourselves, by other load-
14 serving entities and by the PUC, CEC and the ISO.
15 But we think that the program is ontrack. We know
16 there's some challenges out there. We're working
17 on them. We need to continue to work on them, but
18 we need to stay the course.

19 And finally, to say we are very eager to
20 listen to new ideas and that's why we look forward
21 to the rest of the workshop today.

22 Thank you.

23 ASSOCIATE MEMBER GEESMAN: Pedro, thank
24 you for your remarks. The PUC, in the May
25 decision that was issued, and I think it was

1 earlier referred to as the Matson decision -- as a
2 Commissioner it's little hard for me to understand
3 how an ALJ gets his name on a decision unanimously
4 adopted by the Commission, but I'll call it the
5 Matson decision nevertheless -- pretty clearly
6 articulated the philosophy that they are going to
7 take to the program.

8 And I think in a way that has a clarity
9 that I've not seen since the original June of 2003
10 decision launching the program. And they said
11 that they were going to give the utilities
12 considerable business discretion in determining
13 what types of technologies to pursue, what types
14 of contracts to sign.

15 But that despite an effort on the part
16 of some of the IOUs to equivocate as to whether
17 the goal was deliver gigawatt hours in 2010 or
18 simply sign contracts in 2010.

19 The CPUC reaffirmed that that goal is
20 deliver gigawatt hours. And they made very clear
21 that if the utilities are incapable of meeting
22 that goal, there will be adverse consequences.

23 Do you feel comfortable taking on that
24 responsibility when you recommend that we simply
25 stay the course?

1 MR. PIZARRO: Well, we -- the answer is
2 yes, we do have the responsibility to take on
3 appropriate action so that we can move our
4 customer portfolios to the 20 percent target.

5 In terms of the decision you're correct
6 in quoting it. The decision -- point out a couple
7 of other elements. We, and I think PG&E also, had
8 asked for the Commission to provide some upfront
9 guidance on what flexible compliance would mean.

10 And clearly that's a big issue for us,
11 because as we're going out to the market and
12 signing contracts, and there are a lot of moving
13 pieces, and it may be that some of these signed
14 contracts may come in late, be delayed, et cetera.

15 And so we want the ability to
16 demonstrate to the PUC that we made our best
17 efforts to meet those targets. And to the extent
18 that in spite of our best efforts, situations have
19 occurred that prevent us from actually having
20 sufficient electrons spinning the meter by 2010.
21 We want the chance to make our case at the PUC and
22 have the flexible compliance.

23 We had asked for more of that guidance
24 upfront. I think what the decision said was they
25 were not going to define that upfront, but there

1 is still that door open. And I think that's also
2 codified in the statute that launched the
3 renewables program.

4 There's also, and I think this is a key
5 point, I think it's important that the market, as
6 a whole, understand the depth of our commitment to
7 the renewables program, and the fact that although
8 this is not an area where we profit directly,
9 there is a potential for significant penalties.
10 And that is an excellent incentive to make sure
11 that we are doing all we can to contract.

12 But we balance that by making sure that
13 as we go in and contract we are entering into
14 deals that make sense for our customers, that
15 present a good package of terms, conditions and
16 pricing. And we really want to resist the
17 potential downside here of in order to avoid
18 penalties in any cost, signing up customers for
19 contracts at any cost.

20 And so we really think that the flexible
21 compliance notion, even if it hasn't been defined
22 upfront by the PUC, will be important to us in the
23 back-end, because we want to demonstrate with
24 check-in points all along the process that we're
25 signing contracts that present an appropriate

1 balance of risks and rewards for our customers;
2 and that we've done all these things rights and
3 things happen, and we still don't have 20 percent
4 of electrons spinning our meters in 2010.

5 We want the chance to be able to
6 demonstrate to the PUC how our efforts were there
7 and why it happened, and why there might be a good
8 case for excusing us from any specific penalties.

9 So, a long way to answer your question,
10 John. You know, we do accept the responsibility
11 to an active program. We like more comfort
12 upfront, but how we can get flexible compliance,
13 sure. But do we respect what the PUC is doing and
14 willing to roll up our sleeves and work with them
15 and with you, absolutely.

16 ASSOCIATE MEMBER GEESMAN: Thank you.

17 MS. DOUGHMAN: Our next summary is from
18 Fong Wan of PG&E.

19 MR. WAN: PG&E appreciates the
20 opportunity to come to the CEC and the CPUC today.
21 The first thing I want to say upfront is that
22 PG&E's extremely committed to the state's RPS
23 program. If there's any uncertainty to reach 20
24 percent, it would be due to the timing realities
25 of new plants and transmission.

1 Similar to Pedro's remarks, PG&E
2 believes that the RPS program's on track and we
3 would recommend that the IOUs be allowed time to
4 get the program to work.

5 Can you turn the light down so that
6 everyone can see. Thanks.

7 Pedro gave his little promotion about
8 how clean their portfolio is. PG&E also believes
9 our portfolio is very diverse and climate
10 friendly. We have among the lowest GHG emission
11 rating in California, as well as the nation.

12 Approximately 54 percent, you can see
13 the pie chart on the left side shows that we get
14 our power from carbon-free resources. We have
15 assumed that the other side is all fossil, but we
16 do not know for sure if all is fossil, because
17 some of those are DWR contracts, as well as open-
18 market purchases.

19 In terms of the 54 percent I want to say
20 that 23 percent does come from nuclear. And
21 another 19 percent comes from large hydro, which
22 we believe is also renewable power, but it's not
23 RPS eligible.

24 In terms of what's RPS eligible is the
25 four little slices that you see that amounts to

1 about 12 percent. We believe overall we have over
2 30 percent in renewable power in our portfolio.

3 In terms of our progress to date, I
4 mentioned we are 12 percent. In the 2004 RFO we
5 signed 2.3 percent. In '05 RFO we have already
6 signed 1 percent. We're targeting 2 to 4 percent.
7 That should amount to, by the end of the '05 RFO,
8 to 16 or 17, maybe even 18 percent. PG&E also
9 issued our '06 RFO June 30th, two days after the
10 CPUC decision.

11 A little breakdown of what is it that we
12 have. You can see from this chart overall that we
13 have a lot of different contracts, a lot of
14 different technologies. Our 2002 interim
15 procurement RFO allowed us to contract 113
16 megawatts. We signed some bilaterals in '03 for
17 69 megawatts.

18 We really started our full-out effort in
19 2004. That's the year that PG&E exited from
20 bankruptcy. While we were in bankruptcy it was
21 difficult for us to sign long-term contracts.

22 So in the '04 timeframe we signed 350
23 megawatts; you can see the delivery date on the
24 right. Most of those have not been delivered. It
25 does take time for developers to get their

1 financing, to get their equipment, get their
2 construction. And one project has come online.

3 We also in '05 had some more bilaterals.
4 And in terms of the '05 RPS RFO we already have
5 three projects signed. The next amounting to 100
6 to 165 megawatts should be signed this month.
7 We're hoping to sign another 200 megawatts in the
8 third quarter of this year. So that's our game
9 plan.

10 This is the next page. There are two
11 lines on this graph. It's really an illustration
12 for 2005 RFO. What I want to point out to
13 everyone is that transmission is a critical issue
14 for developing renewables. The way to read this
15 graph is on the vertical axis is dollars per
16 megawatt hour; horizontal axis would be cumulative
17 gigawatt hours. So all this is, is a price and
18 quantity curve.

19 The line on the right side represents an
20 illustration of all the RFO offers we receive
21 regardless of transmission constraints. The one
22 on the left reflects not constrained by
23 transmission. So you can see at least half the
24 quantities are constrained by transmission. And
25 would require -- there's a timing concern here.

1 We also have done some things while in
2 the '05 RPS RFO. We have increased our outreach
3 effort. We have received a 100 percent increase
4 in offers; 250 percent in volume. And we have
5 almost every single technology one can think of.
6 The majority of the bidders are new participants.
7 And, again, what we learned is project lead times
8 are lengthy; roughly in the two- to three-year
9 period. And we also saw significant responses
10 from SP-15 and the Pacific Northwest.

11 I'd like to quickly cover what has gone
12 right, and some of the things that we will also
13 need help on.

14 In terms of what has gone right, we
15 talked about the developer turnout. I think
16 what's really eye-opening is that the offers show
17 where the transmission should be built. We're not
18 looking at research or academic studies any more.
19 We're looking at real commercial offers in terms
20 of our transmission planning.

21 We talked last week about the bid
22 deposits in this room. We've also expanded
23 delivery points beyond our service territory and
24 out of state. We have thought of some creative
25 commercial solutions on transmission upgrades.

1 And we also believe that the CPUC made significant
2 improvement in the NPR timing and process.

3 The CEC Staff also have put in lots of
4 work to create and update the RPS program
5 guidebooks, including the RPS tracking and
6 verification methodologies.

7 We talked a little earlier about the
8 CPUC and the ISO efforts on transmission
9 development. And we believe that we also have a
10 very robust evaluation process where the
11 procurement review group has been very
12 collaborative and provided lots of input into our
13 processes. And we have been using an independent
14 evaluator to verify the evaluations; to also put
15 integrity into the process; and answer any
16 questions that PRG may have. And the independent
17 evaluators may also be used for testifying at the
18 CPUC or at the CEC if that's appropriate.

19 We also believe that the CPUC has done
20 significant work in terms of protecting
21 confidential information. We believe this is
22 extremely critical, after all, all of us in
23 America is after capitalism, we like to make as
24 much money as possible, price it as high as
25 possible. So we don't believe having all the

1 information out in public is in the best interests
2 of our customers.

3 The last part is that we believe that
4 all the foundation has been laid out by the two
5 Commissions. We believe the RPS program is ready
6 to take off for success.

7 In terms of some of the areas that we
8 could use some help. The first one has to do with
9 what we call shaping and banking for out-of-state
10 intermittent projects. that's just another way to
11 describe wind.

12 We have found there's significant wind
13 possibilities outside of California, as well as
14 inside of California. And wind resources outside
15 of California has different challenges than within
16 California because of the scheduling requirements
17 into the ISO. That it requires planning, which
18 makes the wind resources very difficult to do.

19 Within the State of California the Cal-
20 ISO has a special program for wind. It's called
21 PIRP. I can't remember what it stands for, but it
22 is a program that allows the wind to come online.

23 And what we would like to do is that we
24 would like to submit some contracts to the CPUC
25 and to the CEC to get clarity on this issue in

1 terms of how out-of-state wind projects can work.

2 And that should be happening this year.

3 The second topic has to do with SEP
4 finance-ability. Several sellers have told us
5 that in other states, not in the State of
6 California, that SEP were granted but not honored
7 during the course of the contract. And that has
8 presented significant challenges for the financing
9 of these projects.

10 What the sellers have asked us to
11 request is that the CEC would consider separate
12 escrows such that the money cannot be called back
13 during the delivery timeframe of the contracts.
14 So it is something that supposedly has happened in
15 other states.

16 ASSOCIATE MEMBER GEESMAN: Let me jump
17 in and address that, Fong, because that did come
18 up at an earlier workshop that Commissioner
19 Pfannenstiel and I held on our renewable
20 guidebooks.

21 And both Commissioner Pfannenstiel and I
22 are supportive of that, and recognize the need for
23 it. I will say the State Department of Finance,
24 for the very reasons that we think it's a good
25 idea, and I think the market thinks it's a

1 necessary idea, the State Department of Finance is
2 reluctant to let go of control of the money.

3 Now we have provided language to various
4 would-be legislative authors. I'm not aware of
5 anything being put in legislative form yet. But
6 the appropriate forum for that, which I think is a
7 very good idea, is to put an amendment in a bill
8 and get a third-party escrow capability
9 established. I'm skeptical that any of these SEPs
10 will turn out to be financeable without that.

11 MR. WAN: Thank you, I agree with that.

12 COMMISSIONER BOHN: Can I just ask a
13 question, John, really to you? Do you need
14 legislation for this? I mean, escrow's a common
15 process.

16 ASSOCIATE MEMBER GEESMAN: Unfortunately
17 you do in order to get the money out of the State
18 Treasury. And the Department of Finance would
19 like it to stay in State Treasury in case of
20 adverse conditions down the road call for the
21 ability to borrow that money for awhile.

22 But that's why a lender will not
23 consider the SEP financeable. And we do need a
24 separate statutory capability to establish that.

25 MR. WAN: Yeah, I think this issue is

1 fairly critical for us because we do have one
2 contract for an '04 solicitation in front of the
3 PUC which needs some amendment. But that contract
4 does need SEP payments. I believe San Diego also
5 has one.

6 So the certainty of the SEP payments
7 will turn out to be possibly a deal-breaker for
8 the sellers.

9 ASSOCIATE MEMBER GEESMAN: Well, a lot
10 of the people in the room have much better
11 friendships with Members of the Legislature than I
12 do --

13 MR. WAN: Okay.

14 ASSOCIATE MEMBER GEESMAN: -- so I would
15 encourage you to take that up. And I will
16 volunteer individually to testify on behalf of it.

17 MR. WAN: Okay.

18 ASSOCIATE MEMBER GEESMAN: Do not
19 anticipate the Department of Finance being
20 supportive, though.

21 MR. WAN: Okay, I understand that. I
22 will tell you, John, I've also talked to the
23 Governor's Office about this issue. So,--

24 ASSOCIATE MEMBER GEESMAN: I think they
25 understand it.

1 MR. WAN: Yes, they do. So, it's going
2 to need a full court press from everybody in the
3 room.

4 ASSOCIATE MEMBER GEESMAN: Yeah.

5 MR. WAN: We talked about the
6 transmission issues already; that needs to be
7 continued to be refined.

8 The last part, and this is somewhat
9 similar to the second part; this is dealing with
10 the federal government, which is the certainty of
11 PTCs and ITCs. A lot of the sellers are telling
12 us that they can't absorb the risk of whether the
13 production tax credits and investment tax credits
14 will be extended. So any effort from people in
15 this room who can offer will be much appreciated.

16 And the last part is that we believe
17 that a common RPS standard should apply to all
18 load-serving entities. Some of us may not realize
19 this, but 40 percent of the load is not served by
20 the three of us. Thirty percent or so are by the
21 munis; 10 percent by the ESPs. After all, we are
22 one state. We have a state goal to be a leader in
23 renewables. And we'd like to see that be applied
24 to everyone.

25 ASSOCIATE MEMBER GEESMAN: Let me ask

1 you, a lot of us have invested a fair amount of
2 expectation in the policy articulated by the CPUC
3 in their December 2004 long-term procurement
4 decision that renewable projects were to be a
5 rebuttable presumption for all long-term
6 procurement.

7 Your company conducted the first
8 solicitation that's been done under that 2004
9 decision. I believe you elicited 50 different
10 responses to your RFO, but not a single one of
11 them was from a renewable project.

12 I and others characterized that as an
13 abject failure. Is that all-source procurement
14 mechanism a usable device to encourage more
15 renewable projects? Or are we really best off
16 focusing exclusively on the RPS solicitations?

17 MR. WAN: John, you are correct; we
18 received over 50 offers and did not, to the best
19 of my recollection, receive any renewable offers.

20 And the details of that RFO was that we
21 were looking -- PG&E was looking for dispatchable
22 and peaking power. And the reason we were looking
23 for that is we followed the state's preferred
24 loading order of customer energy efficiency,
25 demand response, distributed generation and

1 renewable. And the last part that we need, in
2 terms of our resource mix, would be the type of
3 power that can respond to our customers' summer
4 afternoon demands when the load ramps really hard.

5 So we were looking for specific
6 capability from the resources, or the offers. It
7 was open to any possibilities. So if there were
8 some possibly solar projects that may be able to
9 meet that need, but we did not receive any of
10 those offers.

11 I do not consider that solicitation to
12 be a failure. I think we should continue to keep
13 the option for the renewables to bid into the all-
14 source RFO.

15 ASSOCIATE MEMBER GEESMAN: Thank you.

16 COMMISSIONER BOHN: May I just ask a
17 question here. I was under the impression that
18 all the rest of these folks were subject to the
19 RPS standards, and you referred to something
20 called common standards.

21 Is there code talk going on that I'm
22 missing somewhere? I mean isn't everybody subject
23 to whatever these standards are?

24 MR. WAN: Well, I can talk about the
25 questions I have about potentially some of the

1 muni purchases. I think we have an LA speaker
2 here today.

3 Their out-of-state wind project, for
4 example, I would like to understand how can it be
5 scheduled into the state. How can it be banked?
6 Are they under the same rules as we are per the
7 CPUC and the CEC? For example.

8 COMMISSIONER BOHN: So, your issue is,
9 when you say common standards, your issue is
10 subject to the same rules or subject to analogous
11 rules or, I mean, being a big utility and being a
12 little bitty producer doesn't lend itself to
13 having the same sort of agonizing stuff that the
14 government lays on you guys.

15 Is there an issue here about specific
16 application of specific rules that's underlying
17 what you said? Or am I just implying something
18 into it?

19 MR. PIZARRO: Maybe if I could jump in
20 here. I start with the statute of SB-1078, which
21 says that the PUC -- and I'm paraphrasing here --
22 will develop common standards for all their
23 jurisdictional entities. And then the municipals,
24 the publicly owned utilities, I think are
25 encouraged to meet the Legislature's intent.

1 So, right there from the start in SB-
2 1078 there is a difference between the PUC
3 jurisdictional and those who are not.

4 Like Fong, I agree that an ideal for the
5 state would be -- and this would require
6 legislation -- to move to a common platform for
7 everybody where we all have the same requirements.

8 For example, if the requirement is to
9 have up to 20-year contracts, or to incentivize
10 new generation or what-have-you, that should be
11 applied equally.

12 Focusing on the CPUC jurisdictional
13 tract, though, we do have, as you know, very full
14 implementation of the requirement for the
15 utilities. I think the PUC is still acting, has
16 yet to fully act on the requirements for ESPs and
17 multijurisdictional entities. So, today we don't
18 have a full implementation of the statute at the
19 PUC for ESPs.

20 And as I understand some of the ideas
21 being discussed right now there is this notion of
22 a different requirement. For example, looking at
23 allowing contracts less than ten years. One the
24 one hand I can understanding why that comes up,
25 because of the smaller entities. But on the other

1 hand, we've seen in other areas like resource
2 adequacy that the PUC is being very deliberate in
3 insuring that it's applying the same sort of
4 requirements, because those have ultimately a cost
5 to them. Applying the same requirements to
6 everybody so that there's a level playing field.

7 I think AB-380, signed by the Governor
8 last year, also has very explicit language that
9 says that the same requirements need to be applied
10 to all entities in the PUC's jurisdiction.

11 So that's the area where we're seeing
12 that there has not been a full implementation of
13 the statutes. And today there is not a common set
14 of rules that applies to everyone.

15 MS. DOUGHMAN: Okay, our next speaker is
16 Terry Farrelly from San Diego Gas and Electric.

17 MS. FARRELLY: Thank you, and thank you
18 for the invitation to be here today. I just want
19 to say that I feel that SDG&E has made great
20 progress in our renewable procurement since we got
21 back into the procurement business.

22 Back in 2001 and 2002 we had just less
23 than 1 percent of our energy requirements coming
24 from renewables. We expect this year to have 6.5
25 percent. So we feel like we've made a lot of

1 progress there.

2 We've also gone from 5.25 to about 6.5
3 just in one year. That's a 20 percent increase in
4 energy deliveries.

5 So we find that the process is working;
6 it is complex. It is, in some respects,
7 cumbersome, but I think that we're making a lot of
8 progress and we're moving along, and we're getting
9 the goals achieved.

10 We fully expect that we will be at 20
11 percent in 2010. And we have projects under
12 contract that are at 13 percent right now for the
13 year 2010.

14 We put a letter on the table back here.
15 It was from our Senior Vice President; it was
16 dated May 31st to Commissioner Geesman. And it
17 talks about specifically the progress we've made
18 over the years. And it talks about the two items
19 that we think very important to get us to our
20 goal.

21 And one is the transmission; ditto from
22 whatever -- everything that's been said so far.
23 And also the SEP certainty where something with an
24 escrow account structure would be really very
25 helpful.

1 We have new resources coming online this
2 year 2006. We had a 50 megawatt wind project come
3 online early this year. We also have in our
4 service area, we're going to have a small
5 hydroelectric project by the end of the year, and
6 a landfill gas project by the end.

7 We're taking the steps to get the
8 transmission developed so that we can have
9 additional resources. We're underway with our
10 2005 solicitation. So we've got some projects that
11 we should be bringing to the Commission for
12 approval very shortly.

13 We issued an all-source short-term RFO
14 for 2007, '8 and '9. It may not get us to the
15 2010, but we're still looking for renewable
16 resources in those years, as well.

17 We expect to issue the RPS RFO for 2006
18 on July 14th. So we'll see how things move there.
19 And also we're expecting, as we go through the
20 long-term resource plan proceeding that we will
21 show a need, and we will be issuing an all-source
22 RFO. So we expect that there will be some
23 renewables there, too.

24 So, we think that the process is moving
25 along. I don't know if we want to reinvent if

1 there are probably some things that we could
2 improve on it. I mentioned a couple of them, the
3 transmission, the SEPs.

4 We do think that also this TRCR process,
5 transmission ranking cost report process, we think
6 that that could be improved and that would help
7 move things along.

8 We think that going beyond the 20
9 percent is something that we want to do. We think
10 that there's some things that need to be done
11 there. Some studies, perhaps in how would, say,
12 going to 33 percent affect the transmission and
13 the distribution system. We don't know how,
14 having all sorts of PV on rooftops, will it affect
15 the distribution system. So we think that there's
16 probably some need for review there.

17 And we feel that incentives probably
18 work better than penalties. So, as we move beyond
19 2010 we'd like to see some movement toward
20 incentives for additional renewable procurement.

21 ASSOCIATE MEMBER GEESMAN: Now, Terry,
22 the Matson decision, we mentioned before, very
23 clearly reminds each of the IOUs of provisions
24 that have been in the Public Utilities Code for
25 some period of time, about a preferred return on

1 investment for investment in renewable projects.

2 That would seem to me to be in the
3 incentive category, as opposed to penalties. But
4 it has yet to elicit any interest or activity from
5 the utility sector. Is your company actively
6 considering an investment directly in a renewable
7 project?

8 MS. FARRELLY: Yes, we are actively
9 considering ownership in a renewable project for,
10 I believe it was 2005, and I can't remember if it
11 was 2004, as well, but we requested bids for
12 utility ownership and options and that sort of
13 thing.

14 So we haven't, as a result of those
15 RFOs, we haven't come up with something that we
16 can bring for approval. But that is something
17 that we're very interested in doing, and we're
18 spending a lot of time on that.

19 ASSOCIATE MEMBER GEESMAN: Thank you.

20 COMMISSIONER BOHN: Can I just interrupt
21 for one second. One of the things that comes up,
22 and I'd really like to address across all three of
23 you, that report said that one should anticipate
24 20 to 30 percent contract failure rate. And then
25 it talks about permitting and siting and all the

1 stuff that sounds a lot like it's in control of
2 the government or some form of the government that
3 tends to get in the way of getting this stuff
4 done.

5 I guess my question is, or my
6 observation and my question, it seems like one
7 alternative is to sort of over-commit on the basis
8 you're going to have 30 percent failure rate. The
9 other seems to me a more sensible approach is to
10 reduce that rate to somewhere close to zero.

11 That means that you all have to evaluate
12 the likelihood of whatever contracting party you
13 engage with is going to deliver it. That doesn't
14 strike me as a very complicated process. It
15 shouldn't permit, it seems to me, a 20 percent
16 error in that. I mean you got whole staffs of
17 people who do this stuff.

18 How credible is that 20 to 30 percent
19 failure rate?

20 MR. WAN: I actually don't know the
21 source of that information. I can say that this
22 topic actually ties back to the discussion we had
23 last week on credit.

24 And when we have some teeth in
25 performance standards and some teeth in penalties,

1 and ask people to post credit when they don't
2 perform, that's how you avoid failures.

3 So, the question I have for people who
4 did the study is did they dig deep enough into
5 each of these contracts or the entities to see
6 what their performance standards were.

7 Even the best performance standards,
8 John, will have some failures because things
9 happen in a permitting process, in the financing
10 process, or some of our suppliers have had a
11 difficult time to get turbines at the right price.

12 We, I think you have seen that all three
13 utilities have voluntarily over-procured anyway.
14 the original requirement or goal was 1 percent per
15 year. But we quickly realized that was not going
16 to add up to 20 percent by 2010. So we're on the
17 path of over-procurement anyway.

18 COMMISSIONER BOHN: I'm okay with the
19 fact that there will be inherently some failures
20 just because stuff happens. But it would seem to
21 me that a 20 percent failure rate, or a 30 percent
22 failure rate, it's hard, I guess -- it's hard for
23 me to understand that the process of evaluation
24 that leads to contract signing would not look into
25 all of the normal causes for failure, and that

1 those, indeed, would be part of the criteria for
2 signing a contract with firm A as opposed to firm
3 B.

4 Presumably there's some, I don't want to
5 say checklist, but there's some judgmental process
6 that goes on, does this person have a site under
7 contract. Does this person have the financial
8 wherewithal. Has this company done it before. I
9 mean all the normal sort of investment decisions.

10 And if you do that it's hard for me to
11 see that you're going to get a 20 or 30 percent
12 failure rate. What you might get is a bias toward
13 established players. And then I guess the
14 decision is how important is it to encourage
15 unestablished players.

16 But there should be some kind of an
17 evaluation process that's pretty clearly
18 articulated.

19 MR. PIZARRO: Let me -- I fully agree
20 and I think there are at least three stages in the
21 way we think about this. The first is that
22 project viability check. It's due diligence. And
23 we try to perform a pretty rigorous process.
24 We've learned a lot on our prior solicitations and
25 so we do have a checklist. In fact, we've

1 discussed elements of that checklist with the
2 market as a whole through our workshop and with
3 the energy division and our PRG.

4 So we do go through it and take a look
5 at what's the -- who is behind that contract and
6 what steps have they taken already. Some of the
7 steps you enumerated.

8 The second element is contract
9 formation. And insuring that a contract is both
10 robust and balanced, but also tailored to a
11 particular project development and developer. And
12 without trying to create an excuse for our long
13 period of time that our solicitations have taken,
14 particularly the first, it's gotten better, but
15 it's still taking a little longer than any of us
16 would like.

17 Part of that is the dialogue and
18 negotiation between us and our counter-parties in
19 arriving at a set of contract terms that gives
20 us, as Fong said, enough teeth in terms of the
21 performance management. But it's also workable
22 for that developer.

23 And then the third stage is the whole
24 contract administration and monitoring process.
25 It's tied to the contract because you need to form

1 a contract that creates milestones, so especially
2 if you're looking at a development that is a newer
3 technology, or has more technology risk to it,
4 we've looked for ways to tie that risk further to
5 the development process and the developer in a
6 balance way. But identify clear milestones early
7 in the process so that if we do have a failure we
8 know it earlier rather than later, and can adjust
9 our procurement appropriately.

10 The whole flip side of this and a
11 concern I have when the aggregate figure of 20 to
12 30 percent comes up is this. I think, as Ric
13 earlier mentioned, there is a broad range in their
14 studies. Again, like Fong, I haven't seen the
15 details but it sounds like with some counterpart
16 or with some load-serving entities there may be a
17 very low or zero failure rate; with others it may
18 be a higher one. I would expect there's some
19 correlation to the kind of steps I just talked
20 about.

21 The other component to this is that
22 although we are all very committed to increasing
23 the percentage of renewables, we do also have to
24 acknowledge that there is a reason that in today's
25 environment not all of our renewable procurement

1 is happening through the RPS program.

2 We've been fortunate at SCE that we have
3 not had to access SEP funds in prior
4 solicitations. But we expect we will shortly.
5 And likely with some of the '05 contracts that
6 we're completing here.

7 So, as part of the whole least-cost/
8 best-fit math, these do tend to be more expensive
9 in economic terms. They do bring other benefits.
10 We need to be careful that we don't create a --
11 translate that 20 percent requirement to something
12 higher. Because we need to be mindful of the
13 overall economic impact on our customers'
14 portfolio.

15 So we'd rather see the strong management
16 to the steps I described to get to the right
17 place. And to the extent that we see more
18 renewables that are economic, we see the
19 renewables that can compete in our all source
20 solicitations are providing an overall value under
21 least-cost/best-fit, we'd be thrilled to sign even
22 more, further than 20 percent.

23 But, what we're trying to do is make
24 sure that to the extent that these do impose a
25 higher cost overall today, we're meeting the 20

1 percent target without necessarily imposing extra
2 costs on our customer portfolios.

3 ASSOCIATE MEMBER GEESMAN: But doesn't
4 the MPR SEP mechanism protect you from that
5 problem?

6 MR. PIZARRO: It does, I mean it does
7 provide a lot of help, John. But, again, if you
8 take it to the extreme, although it's protecting
9 our bundled customers directly, they still pay a
10 share of the public goods charge that's leading to
11 SEP.

12 So I think there's a societal cost
13 there. And we just need to be mindful of that.
14 There are limited SEP funds, and I'd rather see
15 them be employed in a way that optimizes the value
16 for all of society.

17 MR. WAN: John, I want to come back to
18 two criteria you gave earlier that we do look at
19 in our all-source solicitation very clearly. One
20 is viability, the viability of technology, the
21 viability that the project, itself, based on the
22 site, and the track record of the developer.
23 Those two are among the criteria that we look at.

24 In terms of renewables it's a little
25 more challenging. For wind it's easier to see if

1 they have records in terms of met towers,
2 measuring whether there's any wind.

3 And I can point to geothermal. Unless
4 someone has drilled enough test holes they can't
5 really tell. And some of those holes go down
6 pretty deep and can require up to \$5 or \$10
7 million.

8 And in terms of solar, the Stirling
9 project is one where you can see it clearly needs
10 some advancement in technology. So there's not a
11 certainty on whether they can deliver the 500 or
12 1000 megawatts.

13 So some technologies are easier to see
14 than others.

15 MS. FARRELLY: And I'd like to say I'm
16 in my third year of this renewable procurements,
17 and in that time period we've had one contract
18 that has failed. So I'd be interested to see how
19 we've developed the 30 percent.

20 Additionally, we look at the same -- we
21 have the same milestones in our contracts in terms
22 of what backing does the developer have; what is
23 the technology. But we haven't gotten to the
24 point where we're drilling down to a zero failure
25 rate, because we think that there are some

1 emerging technologies, there are some emerging
2 investors and that sort of thing.

3 So, what we want to do is have sort of
4 the portfolio of resources where we have proven
5 technologies and things that need a little bit
6 more work. And the same thing for the developers,
7 as well.

8 ASSOCIATE MEMBER GEESMAN: Commissioner
9 Pfannenstiel and Brian Prusnek from the Governor's
10 Office are joining us.

11 And I think we're ready for our next
12 speaker.

13 MS. DOUGHMAN: Okay. Our next speaker
14 is Mohammed Beshir, Los Angeles Department of
15 Water and Power.

16 MR. BESHIR: Good afternoon. Thank you,
17 Commissioners, for extending the invitation to
18 LADWP to participate in this discussion. At LADWP
19 we do think our RPS programs are very important,
20 and LADWP is very committed in meeting RPS goals,
21 which is set by our governing body, which is the
22 City Council through our Board of Commissioners.

23 At LADWP we do have 20 percent by 2010
24 goal, which is exactly the same as the IOUs today.
25 We originally had 20 percent by 2017, which was,

1 of course, accelerated up to 20 percent by 2010
2 recently.

3 So, I guess there was discussions about
4 being the same or different, what-have-you. I
5 guess there are considerations what we mean by
6 those things.

7 LADWP goals and RPS, we did have similar
8 kind goals prior to the RPS. We did originally
9 were talking about 50 percent of our load growth
10 being met by DSM, DG and renewable portfolio. And
11 that was started in August of 2000. So this
12 predates the RPS program.

13 We have -- renewables we describe
14 similar to the state. We have minor variation on
15 the hydro plants, but that was done to accommodate
16 our output at hydro plants, which we have a few
17 over 30 megawatts. But that is consistent,
18 everything else consistent with the state
19 definitions.

20 We have had the RPS programs since 2004.
21 At that point our renewables portfolio standard
22 was 4 percent. Today we are happy to say it's 6
23 percent and going up. So we are meeting --
24 exceeding the 1 percent per year goal.

25 Our RFP renewable RFPs, we have had a

1 few. One in 2001. And through that RFP process
2 we did acquire two major renewables. One was
3 ownership, which we are currently developing. A
4 120 megawatt wind project. We had signed on a PPA
5 for a 40 megawatt biomass project, which is in the
6 early development. And I guess with PPAs there's
7 a lot of uncertainty still on that project, as
8 well.

9 And as part of our due diligence we did,
10 the same thing we had a geothermal which never
11 materialized.

12 And as our RFP we had, we issued, was in
13 June 2004. Our goal at that time was the 20
14 percent by 2017. So the goal of that RFP was to
15 meet 13 percent of our RPS by 2010.

16 With that RFP we were very successful.
17 We had over 37 projects -- 57 projects, actually
18 was proposed. Nine was selected for further
19 consideration and negotiation. We have entered in
20 two contracts which are in operation today. One
21 is in the approval process; four are in various
22 stages of negotiation and project development; two
23 have opted out and terminated.

24 As part of our process also we are
25 engaged with the SCPA, Southern California Public

1 Power Authority. That's a joint authority which
2 we do some procurements of our resources. Through
3 that we had issued an RFP in 2005.

4 We have eight projects we are
5 considering and negotiating with. And I guess it
6 was mentioned earlier, we had one project which
7 was signed recently, a wind project. Six are in
8 various stages of negotiation and project
9 development. And again, one has opted out from
10 the project; that was a geothermal project.

11 So, some of our experience with RFPs.
12 Typically in the RFPs we have sent out we had
13 requirements for project size. We looked at
14 project, we had identified what kind of project
15 types, is it baseload or dispatchable or all kind
16 of resources.

17 We always have been identified ownership
18 in a preferred procurement mechanism for us. We
19 have also provided options for all types of
20 projects. It could be property, as well as
21 developed projects, or a different level of
22 project development. Power purchase agreements of
23 different terms, five, ten, 15, 20 years. So it's
24 not really specific, it's not short-term or long-
25 term, but we do have options for developers and

1 provide us to choose.

2 We have so far for most part we have
3 asked for bundled energy and REC. We haven't
4 asked for a REC only, or projects. We always have
5 identified delivery points; mainly would have
6 preferred delivery points within our transmission
7 systems.

8 We have also had business policies we
9 identified. Could be minority business enterprise
10 issues, or recycling and many other union-related
11 issues. So those are our business policies we
12 also identify in our projects. We provide pro
13 forma agreements, as well as we do require project
14 detailed data.

15 The difficulties we have had with some
16 of the RFPs was a proposal security. I think
17 there's been a lot to be said for that. We did
18 require having proposal securities for people to
19 show seriousness of their project. But it's a
20 two-edged sword. That gives you the screening
21 mechanism to make sure you have viable and good
22 projects in the pipeline, but also it does
23 discourage some developers, as well as maybe there
24 could be some viable, but with some maybe some
25 push and pull that may make the project. So that,

1 I guess, is a two-edged sword in that sense.

2 We do like ownership projects, but also
3 discourages some developers and providers, because
4 they may have some tax appetite or they do see a
5 lot more upside on owning the project, or flipping
6 or selling that project down the road. So that
7 sometimes is also a consideration.

8 Business policies we have. In most
9 cases, people don't -- developers do not like the
10 different business policies we have. But those
11 are policies we cannot get out of, so eventually
12 that was -- takes care of the negotiation.

13 So we have some contractual government
14 contracting provisions, confidentiality,
15 indemnification issue, audit provisions which are
16 sometimes difficulty, cause difficulties to
17 developers and providers. But normally we do, we
18 are able to negotiate on those.

19 So, in general, those are some of our
20 experience.

21 Some of the things we are doing. We
22 are, I guess we do -- renewables, and we are very
23 serious about developing renewables. So the way
24 we go about developing renewables, we do look at
25 the whole aspect; the energy considerations, the

1 transmission issues; the integration issues within
2 the system. And how do we better look at that
3 from a long-term plan perspective.

4 So, overall, I think, as was said by Ric
5 and I think was testified in some of the reports
6 CEC has developed or produced recently, I mean we
7 have had some successes. In fact, in view of some
8 of the difficulties or some other people feel. We
9 are successful; we are very focused on what we are
10 trying to do. We have major projects on the
11 pipeline hoping in the very near future they will
12 materialize.

13 So we are looking at first streamlining
14 the process farther, which includes coming out
15 with pro forma agreements. We are planning to
16 issue new RFP shortly to supplement to what we
17 have in the pipeline. We have major transmission
18 upgrades we are looking at. I guess we'll be
19 talking about the green path project, which is
20 essentially looking -- we have very focused
21 approach to go where the renewables is. And we
22 are working towards that with major transmission
23 upgrades.

24 And the same thing is also happening in
25 Tehachapi, where we are upgrading our transmission

1 system. Today we are building a ten-mile line to
2 spur from our transmission line to where the
3 renewables are. That is in association with our
4 Pine Tree project. And we do see that is a focus
5 for expanding that renewable wind from the
6 Tehachapi. So we do have other projects in the
7 pipeline along with that.

8 We are also looking at getting to some
9 wind and maybe geothermal up in the Utah/Nevada
10 area with an upgrade of our STS dc line from 1920
11 to 2400 megawatts. That's in the pipeline. We
12 are working through WECC to get an upgrade on
13 that. And that is going to bring major renewables
14 to southern California.

15 So, in addition to that, of course, we
16 are separate, but I think the beauty of that is we
17 do look more in an integrated fashion. We provide
18 a lot of value to the developers. I think that
19 has been proven.

20 One challenge we have today is, of
21 course, how do we pay for the major transmission
22 upgrades we are looking in our system, as well as
23 for some of the major renewables we are procuring
24 and planning to procure.

25 Today we are in the budgeting process,

1 as well as going through the different
2 neighborhood councils. Our City focus, try to see
3 how to get the additional revenue to make that
4 happen. And we are very positive of the reactions
5 we're getting from our customers. They are
6 supporting our effort. And hopefully will get the
7 necessary funding to be able to complete the
8 projects.

9 ASSOCIATE MEMBER GEESMAN: You know, I
10 mentioned my admiration for the clarity of
11 commitment in the CPUC's Matson decision. But I
12 think the real model for that no nonsense, no
13 equivocation, the goal is the goal is Mayor
14 Villaraigosa. And I know that at his direction
15 the performance evaluation criteria for your
16 general manager have been amended to include
17 progress in meeting your 2010 renewables goal.

18 And to my friends in the investor-owned
19 utility sector, searching for a common standard, I
20 would suggest you recommend that to your utility
21 CEOs as a way to focus your commitment.

22 MR. BESHIR: Thank you.

23 MS. DOUGHMAN: Okay, should we move on
24 to the next speaker, then? The next speaker is
25 Valerie Beck from the CPUC.

1 MS. BECK: I've been asked to be brief,
2 so I will comply. First of all, I'd like to say
3 I've had the luxury of listening to all the other
4 speakers and being the last speaker, and I very
5 much appreciate and understand some of the
6 observations that have been made today.
7 Particularly regarding the complexity of the
8 statute, which is sometimes prescriptive, as well.

9 We've heard from the utilities about the
10 progress that has been made to date. We've also
11 heard about some of the obstacles, so I think
12 probably the best thing I can do is just tell you
13 what's on our plate for this year at the
14 Commission.

15 In February we opened a new rulemaking.
16 And in that rulemaking we plan to address issues
17 that have come up today regarding participation of
18 ESPs and CCAs and the small utilities and the RPS
19 program.

20 We have also opened up a rulemaking to
21 implement the California Solar Initiative. And
22 one piece of that will deal with how those
23 projects may or may not be eligible for the RPS
24 program. We also plan to address RECs this year.

25 And most recently in May we approved the

1 IOUs' 2006 short-term procurement plans. The
2 utilities are getting ready to issue solicitations
3 in July or by July, this month.

4 Just the last Commission meeting the
5 Commission approved a decision regarding
6 application of backstop cost recovery for
7 transmission costs that are not included in
8 transmission rates.

9 We have also acted upon a recommendation
10 by the Tehachapi working group to designate a
11 specific RPS transmission project manager. We
12 just did that a couple of weeks ago. Most of you
13 know him; it's Tom Flynn. He couldn't be here
14 today, but he has actively started his new role.

15 In terms of other decisions coming down
16 the pipe, we plan to talk about -- issue a
17 decision about transmission, streamlining
18 transmission permitting; resolving some of the ISO
19 queuing issues. We plan to issue a new MPR in the
20 next 60 days.

21 That's it, thank you.

22 ASSOCIATE MEMBER GEESMAN: Thank you,
23 Valerie. Why don't we go to the panel.

24 MS. DOUGHMAN: Jam Hamrin will be
25 moderating the panel for us.

1 MS. HAMRIN: I don't know how much
2 moderating I'll do unless you start to look like
3 you're getting in fist-fights. But I do want to
4 remind you all that we have limited time, so
5 please highlight the issues that are really the
6 most important.

7 Remember, the transmission discussion is
8 next so you don't need to use this time for
9 transmission. You'll have plenty of time in the
10 next section.

11 You also can provide more information in
12 your written comments, so your comments here are
13 not the last we will hear. You certainly should
14 feel free to expand on those in your written ones.

15 And don't spend a lot of time on an
16 issue that you've already briefed before the PUC.
17 I don't think we need to redo briefs and reply
18 briefs.

19 And please speak into the microphone.
20 So, John, have you found a chair down there, too?
21 Who would like to start off? Steven, you're next
22 to the microphone.

23 MR. KELLY: Thank you, Jan. Steven
24 Kelly with Independent Energy Producers. And,
25 Commissioners, I appreciate this opportunity to

1 talk about the RPS. You asked for candor and I
2 think I can do candor.

3 (Laughter.)

4 MR. KELLY: After hearing the
5 presentations I just got a warm glow about how the
6 RPS is progressing here, so, it's very exciting.
7 But what I'd like to do is talk briefly, start my
8 presentation with a little metaphor, and then
9 raise some issues about how California's
10 proceeding with its RPS.

11 And the metaphor is I harken back to the
12 workshop we had last week. And this is how I
13 think of how the RPS is being implemented in
14 California, and the reasons why it sits wherever
15 it sits.

16 Last week there was a workshop here at
17 the Energy Commission on credit collateral issue,
18 a very important issue. There were a number of
19 panels. I think one had 11 people; the other
20 panel had 13. There were five microphones. The
21 utilities controlled two of those microphones.

22 So you'll see when you go back and look
23 at the record a lot of speaking done by the
24 utilities, and very little done by everybody else.
25 And I don't think it was because other people

1 didn't have something to say, but there's a
2 structural impediment about their ability to do
3 that. So it's kind of a metaphor for what's going
4 on in the RPS in California today.

5 Let me go on and talk about -- I've got
6 one, I was glad Jan grabbed this one. It's all
7 about infrastructure.

8 (Laughter.)

9 MR. KELLY: But let me talk briefly
10 about this issue of progress, because it sounds
11 like everything is moving forward swimmingly. And
12 I want to flip that a little bit because I want to
13 describe what I see in terms of the success of the
14 California RPS to date.

15 There's lots of contracts that have been
16 entered into. And there seems to be a
17 tremendous -- some issues about the viability of
18 those contracts coming online, or else we probably
19 wouldn't be having these series of workshops
20 today.

21 I'd note that in the presentation
22 there's something like 241 megawatts that have
23 actually come online since the California RPS was
24 implemented by the Legislature. That's about half
25 of what had come online the previous three or four

1 years when we didn't have an RPS.

2 And the Energy Commission has reported
3 that as a percentage of retail sales it appears
4 that the RPS is actually moving backwards because
5 the percentage is dropping from the utilities,
6 anyway.

7 When I see those kinds of numbers I
8 question where we really are in this process. And
9 I wonder what is going on in implementation and
10 why we're here.

11 I look at things like least-cost/best-
12 fit methodology for determining who's going to be
13 awarded contracts. And I think that's actually a
14 good methodology, or should be, in theory. But
15 then learn that there's tremendous problems about
16 contracts that are awarded that have lack of site
17 control, or lack of transmission, a lot of
18 discussion of that.

19 And I don't understand how they can move
20 through the evaluation process and not have issues
21 like viability, site control and transmission
22 addressed.

23 I notice that there's no SEP monies that
24 have been awarded or needed yet. Apparently
25 there's two contracts that may be coming forward

1 over the last three years. So no contracts from
2 renewable developers have been selected that would
3 actually trigger that mechanism. And that's fine,
4 that's great, because I actually think renewables
5 are relatively cheap.

6 But I'm wondering, based on a record
7 that shows that there's a probability of a number
8 of the awarded contracts not coming to fruition,
9 who didn't get selected that might have gone
10 forward in a more timely fashion had they had SEP
11 money.

12 I'm not privy to this kind of
13 information; it's all redacted; it's not very
14 transparent. But are there other developers that
15 bid projects that might have been able to come
16 online, having triggered some of the available SEP
17 money which is available by the Legislature, and
18 is now under a threat of being taken back by them
19 because it's being unused.

20 So I wonder if there were more contracts
21 or other contracts out there that could have been
22 entered into, in addition to the ones the
23 utilities already have executed, that might have
24 facilitated a better record of achievement in
25 terms of coming online in a timely manner.

1 The issue of the independent evaluation
2 has come up, and that is a mechanism that the
3 Commission has imposed. I think it is a mechanism
4 that is necessary, given the way the RPS is being
5 implemented.

6 I do have concerns about that. The
7 independent evaluator that's been used to date is
8 somebody who's under contract to the utilities;
9 ends up being a expert witness in the advice
10 letter process for the utilities when they move
11 forward with the contracts.

12 I have some concerns whether there's a
13 conflict of interest there, and if we're actually
14 getting independent evaluation of the RFO process.
15 And look forward to seeing the Commission
16 hopefully dealing with that issue and making sure
17 that the marketplace is comfortable; that the RFO
18 procedures are actually being independently -- or
19 being administered in a level playing field kind
20 of perspective.

21 And I just want to final my comments
22 with one observation, and this is an observation
23 that I've made to the Commission here a number of
24 times in the past.

25 It's not clear to me that we're ever

1 going to be able to see progress in the RPS the
2 way that stakeholders like myself expect it to be
3 if we continue to have a market structure in which
4 the utilities, particularly, as the selectors of
5 these contracts, have a business interest in
6 developing their own projects or building the
7 transmission where they want.

8 It's a fundamental issue that goes to
9 the hybrid market structure. We've had debates
10 about this for a long time. But I still am not
11 convinced that that structure is going to work and
12 insure that we get timely and effective
13 development of new generation, new infrastructure
14 when that's in place, because I just think the
15 motives and the incentives are skewed under that
16 structure.

17 So I leave it at that.

18 MS. HAMRIN: Okay. Next.

19 MR. MORRIS: Hi, I'm Greg Morris of the
20 Green Power Institute. I didn't really come here
21 with a set presentation to give. But I have to
22 say that I am somewhat interested in several
23 utilities saying let's stay the course when as far
24 as I can tell the course we're on will not get any
25 of the utilities to 20 percent renewables by 2010.

1 In fact, I remember a year or two ago
2 SCE, the one utility that's actually close to 20
3 percent, announcing that they had already achieved
4 20 percent. However, they went from a little over
5 18 percent in '04 to a little under 18 percent in
6 '05.

7 So I'm wondering how staying the course
8 is going to get any utility in this state to 20
9 percent by 2010. Certainly as I look at the
10 projects that are already in the pipeline, and
11 that does not include very many from 2005, since
12 they haven't been -- from the 2005 solicitation
13 since they haven't been announced yet.

14 But what I see in the pipeline that has
15 been announced with signed contracts certainly
16 won't get us close to 20 percent by 2010.

17 And I am one who is bringing up this
18 issue of contract failure rate even before that
19 study came out. I know that there was a
20 substantial contract failure rate back in the '80s
21 when we had the standard offer 4 contracts, which
22 were, I think, unquestionably the most attractive
23 contracts that anybody's ever had to work with.

24 Contract failures happen for a number of
25 reasons, but I think that when we had a process

1 that is really trying to push every renewable
2 developer to the lowest possible cost that they
3 can live with, we're pushing them below the cost
4 that they can truly live with.

5 I know a lot about biomass, for example.
6 I know that there have been several biomass
7 projects signed up at rates that simply cannot
8 support a biomass plant. And I know that some of
9 those have already been withdrawn. And then
10 others are likely to fail, as well, because there
11 simply isn't any reasonable way that those
12 projects can be viable.

13 So, I think we do have some fairly
14 serious problems here. I look back to the
15 standard offer 4 process where we had a very
16 significant success with the building of
17 renewables. In fact, the 10 to 12 percent
18 renewables we have in the state right now are
19 mostly a result of that process.

20 And I wonder whether we wouldn't be
21 better off with a standard offer type of process
22 where developers could start from the basis of
23 knowing what they can work towards, and can plan
24 their projects accordingly.

25 Right now we have a process where people

1 are bidding plants into RFPs. And then even if
2 their bids are accepted on a short list, they are
3 then negotiating with the utilities, trying to
4 push them down. And probably, I would imagine,
5 the developer is trying to push them up.

6 And I'm not sure that that really leads
7 to viable projects. I think we have to think
8 about that. And certainly the SEP mechanism, as
9 we've already discussed, is not very conducive to
10 financing projects.

11 So, --

12 ASSOCIATE MEMBER GEESMAN: Do you
13 perceive an avenue in the current system for
14 bilateral contracts?

15 MR. MORRIS: Well, there are several
16 bilateral contracts that have been negotiated;
17 although as far as I know they've been mostly or
18 maybe exclusively with existing, but idle,
19 renewables.

20 ASSOCIATE MEMBER GEESMAN: If a
21 developer had a bilateral contract that it was
22 willing to sign at the MPR, couldn't that go
23 forward outside of solicitation? Do you think the
24 utilities would resist that?

25 MR. MORRIS: I wouldn't know that. I

1 couldn't answer that.

2 ASSOCIATE MEMBER GEESMAN: Well, you're
3 an observer of the market, though, and --

4 MR. MORRIS: If the MPR -- well, I think
5 the MPR is certainly a reasonable price level to
6 allow a lot of renewables to go forward, but not
7 necessarily, for example, a biomass project.

8 MR. WAN: John, we've signed some bad
9 bilaterals.

10 ASSOCIATE MEMBER GEESMAN: Yeah, it just
11 strikes me, because we touched on this standard
12 offer ground a bit last year in our IEPR hearings.
13 And there are those that are enthusiastic about
14 that approach.

15 It would seem to me that somewhat short
16 of imposing that level of standardization, the
17 status quo environment allows a renewable
18 developer willing to sign a contract at the MPR to
19 sure bring an awful lot of leverage onto the
20 utility.

21 If you read this Matson decision which
22 says if these guys don't make their goal, there
23 are going to be serious consequences. Well, it
24 would seem to me that that would provide a
25 developer with at least some ammunition if he's

1 willing to sign a contract at the MPR.

2 MR. MORRIS: Um-hum. Well, I think that
3 would be a great idea. I just -- I don't know
4 what motivates the developers to go to the
5 utilities to try and make that process work.

6 ASSOCIATE MEMBER GEESMAN: Commerce.

7 MR. MORRIS: Indeed. And finally, just
8 an observation on the fact that we have
9 accelerated rather drastically the 20 percent from
10 2017 to 2010. That's good, but only, in my view,
11 if we follow that up with the 33 percent by 2020
12 target that the Governor had set.

13 Because otherwise we risk doing exactly
14 what we did in the '80s, which was we had this
15 boom and bust with development of renewable
16 projects, because they all were done in one five-
17 to-six-year segment; and then there was no more
18 development. And I think that would be a very
19 unfortunate outcome.

20 If we're going to push hard for
21 development now we need to follow that up with a
22 continuing development so that we sustain the
23 renewable industry, not only the operations of
24 facilities that get built, but the development of
25 new renewables over a longer period of time, or

1 we're not going to attract the developers to the
2 state.

3 So, thank you.

4 COMMISSIONER BOHN: May I ask a
5 question. I know nothing about biomass, so I can
6 speak with complete authority.

7 Is it your position that regardless of
8 the cost, whether it's economically viable or not,
9 one should proceed with biomass? I'm having
10 trouble finding out how far you want to take that
11 argument.

12 MR. MORRIS: Biomass is a very
13 interesting renewable technology. It is, in
14 simply looking at the production costs of
15 electricity -- and I'm talking about solid fuel
16 biomass, not biogas here -- it is probably the
17 most expensive of the renewables.

18 However, it's also the only renewable
19 that provides a whole host of nonmarket benefits
20 in the area of waste disposal. It avoids
21 landfilling of waste; it avoids open burning of
22 agricultural and forestry residues; and it
23 promotes forest management improvements which
24 reduce wildfire risk, improved watershed
25 productivity.

1 In fact, since we started the whole
2 restructuring process back in the mid '90s, we've
3 been, as a state policy, still codified in the
4 Public Utilities Code, trying to push some of
5 those nonmarket benefits into being compensated
6 outside of electric ratepayers. And have had no
7 success at all in doing that.

8 COMMISSIONER BOHN: So your argument, as
9 I understand it, is it's not economically viable,
10 but there are other reasons that we should
11 subsidize or somehow help out biomass.

12 I guess my view is that's probably
13 outside the purview of the discussion that we're
14 talking about. In other words, if it's not
15 economically viable under the terms and conditions
16 of the RPS, it seems to me that's a decision,
17 maybe regrettable, but it is not a decision that
18 the market should deal with.

19 MR. MORRIS: Well, the Governor did,
20 indeed, issue an executive order just a couple
21 months ago, I believe it was, that would ask the
22 PUC to open a proceeding to, in effect, establish
23 a biomass segment within the RPS.

24 I don't know where that's going to go.
25 I don't know that the Governor's Office has

1 followed that up with any actual policy
2 recommendation.

3 But yeah, biomass is a tough one because
4 it gives these very significant, and in fact our
5 studies have shown that the nonmarket benefits of
6 biomass are worth considerably more than the
7 electricity they produce.

8 So, how do you achieve that goal. We
9 haven't figured it out yet, that's for sure.

10 MS. HAMRIN: Thank you, Greg.

11 MR. MORRIS: Thanks.

12 MS. HAMRIN: Who would like to go next.
13 Diane?

14 MR. WHITE: I'm John White with the
15 Center for Energy Efficiency and Renewable
16 Technologies. Our group includes individuals who
17 are part of companies who are seeking to bid.

18 We also have organizations that are
19 participants in the procurement review group. And
20 then we have those of us like myself that are
21 interested, and not always bemused, observer. So
22 I guess I'll just speak for myself today, and not
23 speak for everybody, since some of the folks
24 bidding might have a different view than those
25 doing the reviewing.

1 I think the central problem with the
2 California RPS is what we've called the words-to-
3 megawatt ratio problem. And if you add up all of
4 the television ads that the utilities run, all the
5 press releases, all of the filings and all of the
6 statements of good intentions by everyone from the
7 Governor on down, if we acted about renewables as
8 much as we talked about them, I think we wouldn't
9 have lost our leadership role in the country that
10 I think we have lost.

11 On the other hand, I think we have
12 learned a lot in the course of events. We are
13 also very involved with the City of Los Angeles
14 and make a great deal of effort there. We do
15 believe that the incentives created for the
16 General Manager by the Mayor have had a tangible
17 effect on that institution.

18 And we also think that the PUC has yet
19 to demonstrate the capacity to stick with its guns
20 on the question of the IOU compliance. I don't
21 think anyone yet believes that the Matson decision
22 necessarily means what it says until we actually
23 see either the progress get made, or the penalties
24 get inflicted.

25 On the gas side there's no incentive not

1 to build gas it would seem, because of the
2 automatic pass-through of the rate increases. And
3 I think one of the things that's changed since the
4 RPS was adopted is the different view we now
5 should have about our vulnerability on natural
6 gas.

7 While we have been implementing the RPS
8 over the last several years, we have steadily
9 increased our consumption of out-of-state coal.
10 We have begun to become a magnet for people who
11 want to convert gas in Australia and Indonesia and
12 carry it across the ocean for purposes of making
13 electricity and heating hot water in California.
14 And it seems to me that's a much harder and
15 financially more risky proposition than to develop
16 the renewable resources that we have within the
17 state.

18 We've worked hard on the Tehachapi
19 issue. We support it. Southern California
20 Edison's trunkline decision, it wasn't perfect,
21 but it was a good start. We're glad the ISO has
22 picked up on it and is following through. We're
23 disappointed that PG&E's not been as cooperative
24 on Tehachapi. We're glad the ISO's got everybody
25 moving forward.

1 We hope that the interagency politics
2 can become manageable so that we can make
3 decisions in a timely fashion. That is part of
4 California's words-to-megawatt ratio problem is
5 the timeliness with which decisions get made,
6 whether it's permitting or whether it's
7 transmission.

8 The other thing with the RPS that I
9 think we've come to find out is that the annual
10 solicitation that just sort of keep going out for
11 solicitation; without seeing those decisions
12 connected to transmission decisions is a problem.
13 And that ultimately what we're going to have to do
14 is really have work plans for each utility that
15 would provide a mechanism for coordinated
16 investment in transmission and procurement. Those
17 two need to be together.

18 Some of the problem comes from the FERC
19 rules about people, different sides of the company
20 can't talk to each other and stuff like that. But
21 this is where I think the government agencies need
22 to step back from this mechanistic process of the
23 annual solicitation. And look at maybe working
24 back from the 2010 goal, and say how are we going
25 to get there. What are the combinations of

1 projects.

2 Commissioner Bohn's question about can't
3 we do better than avoid a 20, 30 percent failure
4 rate. I think the answer is we should be able to.
5 But not the way we have organized ourselves.

6 I know that there are members of our
7 organization that are members of the procurement
8 review group. We are not convinced that that
9 process is transparent enough or robust enough.
10 And we would much prefer to have the PUC, itself,
11 and its staff be in the middle of those
12 transactions, rather than have it walled off from
13 public agency representatives the way it is now.

14 I can just tell you that some of the
15 projects that have emerged from that process
16 strike us as curious. I don't want to say which
17 ones they are, but let's just say that there's
18 some folks that got picked that wouldn't have been
19 allowed to give money to our group, given what we
20 knew about their business practices. So there's
21 something that's kind of weird about some of the
22 contracts.

23 So I think that the other problem, I
24 think, is that the situation has really been
25 biased against the sellers in a couple of ways.

1 We have a very curious policy with regard to
2 renewable energy credits in terms of the RPS
3 compared to almost every other state and country
4 in the world. Where we basically do not allow,
5 under the law, or at least some people's
6 interpretation of the law, you to separate the
7 attribute from the delivered energy.

8 I don't think we're ready for interstate
9 REC trading as it's been called. But I don't see
10 fundamentally what the difference is between a
11 Geysers transaction between Southern California
12 Edison and PG&E, where the energy stays in
13 northern California and the renewable credit goes
14 to Edison, from a separation of a REC for an ESP.

15 So it seems to me that giving sellers
16 more choices, including letting them sell some
17 short-term contracts, is the only way we're really
18 going to ever get the ESPs in the game. And while
19 we've been having this lengthy conversation, the
20 ESPs haven't been complying with the RPS.

21 And I don't think that's just because
22 some of them don't want to, I think it's because
23 we've not made it possible to give them choices.

24 So I think the Legislature needs to act
25 in some fashion. We proposed a mechanism called,

1 we call walk before you run, where you allow a
2 very limited kind of transaction where you have
3 the energy delivered to the state, to the ISO, or
4 produced in the state from an eligible new
5 renewable. And then allow there to be a separate
6 transaction for the attribute.

7 Seems to me that we used to do that kind
8 of tracking back in the day when we had retail
9 claims. I think Ms. Manrin and her organization
10 had an ability to do that. The Energy Commission
11 had the ability to track claims. I don't know
12 what's so fundamentally different about a limited
13 REC transaction where you basically have people
14 prove that they bought what they say they bought
15 and didn't sell it twice.

16 I think there's no reason for us not to
17 allow that. I think it would make a lot of
18 difference where the transmission constraints
19 exist.

20 And then I also think that the money
21 that the Legislature put forth in the budget for
22 the PUC Staff that the Governor approved, will
23 allow for the PUC to take control of the RPS
24 process and not let it be outsourced to the
25 utilities and the PRGs quite so much. I think

1 that will help.

2 I think the Energy Commission
3 recommendations in the IEPR with regard to
4 transparency of the RPS are important. And I'll
5 leave the transmission discussion to the rest of
6 the panel.

7 MS. HAMRIN: Thank you, John. Okay,
8 we'll go then to Nancy Rader.

9 MS. RADER: Okay, thanks. Nancy Rader
10 with the California Wind Energy Association. I
11 agree with a lot of what I just heard. In
12 preparing for today and really stepping back to
13 look at the big picture, I came up with these
14 thoughts.

15 First of all, you know, I was involved
16 in the negotiation of SB-1078, and I admit it's an
17 ugly law. It's complicated. But there's a reason
18 it's the way it is, and that has to do with
19 politics and compromise. And I really would not
20 want to revisit that process again.

21 I think the basic framework of the RPS
22 is one that we still support. It promotes the
23 objective evaluation of intermittent resources
24 which is very important to us. We think it does
25 promote least-cost procurement in general.

1 Although we agree that we find some of the
2 contracts surprising.

3 We think the law has led to greater
4 utility acceptance of wind, which is a low-cost
5 resource. And we think that has been a good
6 outcome.

7 Despite the fact that not a lot of
8 megawatts have come online, though I would point
9 out that the number is bigger than 240 megawatts.
10 I notice that there's two repowers listed in the
11 database that are listed as not online, which are
12 on line. That's 27 megawatts.

13 There are also 38 megawatts of repowers
14 under construction now, so that number will be
15 over 300 megawatts by the end of the year.

16 But despite that, there's been a huge
17 amount of progress made. We have a transmission
18 plan into the Tehachapi resource area which is
19 going to open up 4500 megawatts or more.
20 Hopefully that plan is going to be approved at the
21 ISO in a month or two.

22 There are over 5000 megawatts of wind in
23 the ISO queue. We have started to repower old
24 sites, 45 megawatts have been completed; another
25 38 megawatts under construction.

1 And most of all, the wind industry in
2 California is alive. Our members are completely
3 preoccupied in contract negotiations and project
4 development. We are expecting big announcements
5 later this summer. We are anticipating some
6 dramatic news from some of the utilities.

7 In short, there's a whole lot of stuff
8 in the pipeline. I think that, you know, we're
9 not short of complaints, I think the PUC will
10 attest to that. We have a lot of complaints about
11 the process.

12 But, a lot of progress has been made. I
13 think there's been learning happening at the
14 utilities, particularly I would say that Edison, I
15 think, has come a long way in understanding the
16 realities of financing, and the understanding the
17 cost to the project of imposing certain
18 requirements. Our members have seen flexibility
19 there at that utility that we're pleased about.

20 And, in general, I think we have to not
21 be too surprised that we haven't seen more results
22 given. That this is the electricity business,
23 after all. It's a lumpy business. We're
24 basically waiting for transmission to be built.
25 And we'll have a conversation about that later. I

1 think there's a lot can be done there. But, the
2 fact is we have transmission being planned and
3 built.

4 So, I would agree with the utilities
5 that it would be counterproductive to look at
6 wholesale changes with the RPS at this point. And
7 what we need to do is continue to make incremental
8 improvements.

9 Thank you.

10 ASSOCIATE MEMBER GEESMAN: Nancy,
11 assuming that you and the utilities are correct
12 that we're headed in a good direction as regards
13 the 20 percent goal, do you think the existing
14 program structure is a good foundation to build
15 from to accomplish the 33 percent goal that both
16 Commissions and the Governor have put forward?

17 MS. RADER: I do think the framework
18 works. We have, from the very first day, called
19 for much greater standardization of contract
20 terms. I think that would help greatly, both in
21 terms of increasing participation and lowering bid
22 prices.

23 And it would reduce the negotiation
24 time. I mean it's taking way too long and way too
25 many resources for people to negotiate contracts.

1 So I think that's, you know, next to transmission,
2 our number one issue.

3 We'd also like to see standardization
4 for projects that want to repower that shouldn't
5 have to go through that bidding process. I think
6 that's why we're not seeing more repowers.

7 I think, you know, it would be nice to
8 have greater uniformity and transparency on the
9 least-cost/best-fit process. We think it would
10 help a lot if utilities provided some very
11 detailed examples about how the least-cost/best-
12 fit process works so we can have a better
13 understanding and there can be a little less
14 secrecy.

15 ASSOCIATE MEMBER GEESMAN: Do you read
16 the Matson decision as requiring that in the next
17 round of contract submittals?

18 MS. RADER: Transparency in least-cost/
19 best-fit?

20 ASSOCIATE MEMBER GEESMAN: Yes. And in
21 the valiative criteria that the utilities apply?

22 MS. RADER: I guess that's not ringing a
23 bell. We would like to see an example to show us
24 exactly how a bid would be put through the least-
25 cost/best-fit process so that we can understand

1 what capacity values are being applied and things
2 like that.

3 We don't really have a basis for
4 complaint right now, given that we got a lot of
5 wind megawatts contracted for and signed. So
6 we're not smelling a problem or a bias, at least
7 towards our resources. But it would, I think,
8 help to understand better how the process works.
9 I'm not sure about the decision on that point.

10 MR. WAN: John, can I just respond to
11 her?

12 ASSOCIATE MEMBER GEESMAN: Yeah.

13 MR. WAN: We would be glad to share our
14 evaluation process with any nonmarket participants
15 who would sign a confidentiality agreement.

16 MS. RADER: Do I count?

17 ASSOCIATE MEMBER GEESMAN: Yeah, I --

18 MR. WAN: I don't know if you count. I
19 don't know if you count.

20 (Parties speaking simultaneously.)

21 ASSOCIATE MEMBER GEESMAN: -- I have to
22 tell you, Fong, --

23 MR. WAN: You have to ask yourself.

24 ASSOCIATE MEMBER GEESMAN: -- that
25 doesn't quite get there. There's probably no

1 bigger critic of our current approach to
2 transparency in the room than me.

3 But I read the Matson decision; I read
4 what I regard as a disappointing decision on
5 confidentiality by the PUC, but with some enormous
6 carve-outs in the renewable area, as creating some
7 openings here that perhaps aren't commonly
8 understood.

9 I think there's going to be a lot more
10 brought into the sunlight in terms of how the
11 valuative criteria are formulated and applied.
12 And what information in the renewable procurement
13 area really should rightfully be in the public
14 domain.

15 And I'm sure we'll have ample
16 opportunity to fight about that in the future.
17 But I think Nancy makes a pretty important point
18 in terms of instilling any confidence in how the
19 program is being conducted.

20 MS. HAMRIN: Dan Adler.

21 MR. ADLER: Thank you. I'm Dan Adler
22 with the California Clean Energy Fund. I'm going
23 to be brief, practical and optimistic. And I
24 think because I no longer work in state
25 government, I can be all three of those things.

1 (Laughter.)

2 MR. ADLER: In my current role -- I
3 left the PUC about a year ago, having worked on
4 the RPS -- I'm traveling a lot more, meeting with
5 a lot more clean energy developers and
6 entrepreneurs.

7 I hear their feedback on the RPS. And
8 actually it's almost uniformly negative. They
9 hear at the high levels that it's not working,
10 nothing's getting built.

11 I spend a little time with them and I
12 talk through the numbers that we've heard today
13 and that are now available in the public domain,
14 50 contracts signed; 3000-plus megawatts; 240
15 megawatts actually running now. And people start
16 to say, well, that's actually pretty impressive
17 after three years. Maybe I will reconsider my
18 decision not even to bid into the California RPS.

19 And I think that's important because
20 going on all throughout the west and throughout
21 the United States, throughout the world, is a
22 green rush. Everybody wants renewable energy
23 development.

24 We need to be very careful that we're
25 not sending, through the natural process of self

1 analysis and navel gazing, bad signals to
2 developers who are not as intimately familiar with
3 these details.

4 I think one definition of insanity is
5 the ability to keep two fundamentally opposite
6 ideas in your mind at the same time and think
7 they're both true. Another definition of insanity
8 is to keep doing the same thing over and over
9 again and expect a different result. That may be
10 an RPS developer's version of insanity.

11 But it is possible for us to sit here
12 and say we have a successful program, we have a
13 world-leading program, incredibly complicated.
14 The process of a deliberative body's best effort
15 and a lot of interested stakeholders. And it
16 needs some work. That should be kept within the
17 family, I think, a little more than it has been.

18 When I was with state government we had
19 a very good collaborative relationship with the
20 Energy Commission. We got a great deal done at
21 the staff-to-staff level. I think that needs to
22 be reconstituted as quickly as possible. And I
23 think you'll see a lot more progress as a result.

24 One practical point. Reading through
25 the materials prepared for this, I note,

1 particularly in the consultant's summary report,
2 that taking maybe the upside total amount of
3 gigawatt hours that are under contract now, it's
4 an additive, say 6.5 percent, from where we were
5 in 2002. This gets us quite close, 18 percent
6 probably, to the 20 percent goal, at least for the
7 IOUs.

8 The contract failure issue is crucial.
9 And one practical suggestion I would make now,
10 probably not being able to file this, it should be
11 more of a state regulatory agency interest in how
12 that process goes. There should be dedicated
13 staff who are working on contract failure
14 questions, a hotline for developers.

15 I have much more exposure to developers
16 now than I did as a state employee and I respect
17 what they're trying to do. Delay becomes failure
18 on a knife-edge. It's not that they don't know
19 what they're doing. They have limited resources.

20 It is important, as Commissioner Bohn
21 noted, that we will shrink the pool of bidders if
22 we make the process so onerous that only the big
23 balance sheet financiers can get in the game.
24 That is a public interest. And I know that the
25 PUC and Energy Commission Staffs are stretched.

1 To the extent there's any resources that can be
2 allocated to that, I think that would be a boon.

3 And finally, to my mind it's not a
4 question of the success of the 2010 goal; it's not
5 even really a question of the success of the RPS,
6 itself. It's a question of the long-term
7 viability of sustainable energy in California.

8 We can focus on the near-term goals, but
9 if we start making decisions about technologies
10 and financing mechanisms that limit our ability in
11 2011 to really set those stretch goals, starts
12 doing things like integrating the transmission
13 system into the electric grid, pushing for
14 technologies that look like peaking and
15 distributed generation. For example, solar
16 thermal with electric storage. That doesn't fit
17 in the current pricing mechanism that we're
18 deploying.

19 And if we go barreling forward with
20 technology choices now, we may find in 2010 that
21 we've constrained ourselves in significant ways.

22 I'm very heartened with what I see
23 happening out of the Public Interest Energy
24 Research group here. There's a real importance of
25 emphasis on the first megawatt for emerging

1 technologies, the things that we're going to need
2 in the outer years of our stretch goals. And so
3 I've been keeping a clear focus on that. Be to
4 the benefit of us when we're sitting here five
5 years from now, as we no doubt will be.

6 Thank you.

7 MS. HAMRIN: Thank you, Dan.

8 ASSOCIATE MEMBER GEESMAN: Dan, you were
9 the primary architect of the rebuttable
10 presumption mechanism for all-source procurement.

11 MR. ADLER: Um-hum.

12 ASSOCIATE MEMBER GEESMAN: PG&E's first
13 out of the box, zero for 50.

14 MR. ADLER: Right.

15 ASSOCIATE MEMBER GEESMAN: Any second
16 thoughts as to how to make that a more effective
17 procurement mechanism?

18 MR. ADLER: Well, I don't know if I
19 would have called it a procurement mechanism at
20 the time. It's a rhetorical device. It's
21 important.

22 I think there was broad support for it
23 as an idea. It needs a lot more meat around it.
24 And what it needs around it particularly are other
25 financing tools that can support the technologies

1 that would really look like the best fit. Right
2 now it's a least-cost game. Fit is out the
3 window, and one of the first PUC decisions
4 basically said that. We don't know how to make
5 these technologies fit, so we're going to go for
6 least-cost at least for now. And we're still in
7 that environment.

8 Listening to what Fong said about what
9 they went to get, those are the needs to meet
10 their utility customers' load obligations.

11 If there was a technology support
12 mechanism in place that made, for example, solar
13 thermal with storage more economically viable, and
14 frankly, if there was probably a little more
15 awareness in the renewable community that the
16 rebuttable presumption is the mantra, then I think
17 you could see it work. You could see more
18 renewables bidding and taking advantage of that
19 financial and technological support on the state
20 side.

21 Probably too soon to tell, but I do
22 think that's the right way to think about it. And
23 I think it can work in parallel to the RPS.

24 ASSOCIATE MEMBER GEESMAN: Thank you.

25 CHAIRPERSON PFANNENSTIEL: Dan, you

1 mentioned trying to work on contract failure by
2 having some dedicated staff to work on that. How
3 do you actually see that working? I guess there's
4 been a lot of discussion about what we know about
5 the contracts, and who knows what, and what
6 information is available. How do you see that
7 working?

8 MR. ADLER: Well, I think it should be
9 clear from the moment that an RPS contract is
10 approved, that it is a state interest in seeing it
11 succeed, that it's not just the developer out
12 there on his or her own, or the developer
13 interaction with a utility.

14 But the developer has friends in the
15 CPUC and the Energy Commission and at the ISO that
16 have a material interest in the success of their
17 ability to go through the various steps, to hit
18 their milestones, get their permits, get the
19 various timely financial obligations met.

20 And can simply pick up the phone and
21 call some of my good friends at these agencies and
22 say, look, we're not going to hit this milestone
23 if we don't get a little bit of regulatory
24 support.

25 It's a fine line between favoritism, but

1 I think once they've been folded into the state's
2 procurement process in that way, then we all have
3 a collective interest in making it happen.

4 And I think there are two ancillary
5 benefits to that, in addition. One, staff will
6 learn on the ground how the program is working
7 much more than in these annual true-ups, or semi-
8 annual true-ups. They can see what a developer's
9 perspective looks like.

10 And it might even be possible, and this
11 is probably going to be controversial, but to
12 build into that process if certain milestones
13 aren't met, contracts begin to fail, there's a
14 utility buyout option embedded in that contract.
15 So that that contract is basically a public
16 possession and a public good at that point. And
17 it needs to be constructed, because we're counting
18 on it so heavily to hit our near-term targets.

19 CHAIRPERSON PFANNENSTIEL: Thank you.

20 MS. HAMRIN: Thank you. Doug.

21 MR. WICKIZER: Doug Wickizer with the
22 California Department of Forestry and Fire
23 Protection. I was asked to speak to one item in
24 particular, and that was a jurisdictional issue.

25 And the issue is the fact that for RPS

1 or utilization of biofuels they need to be
2 produced with a constraint of complying with the
3 Public Resources Code that state, that being a
4 harvesting of timber under the California Forest
5 Practice Act.

6 That, in general, has an associated cost
7 of about \$35,000-plus per timber harvesting plant,
8 on average.

9 The question is, again, how this would
10 apply to federal lands and tribal lands. The fact
11 is that timber harvesting plans do not apply to
12 nonfederal lands within California. There are
13 other harvesting issues and costs that go along on
14 those lands, but it's not those produced by the
15 state in that instance.

16 Internally what we've done to address
17 the cost for harvesting of -- the cost of
18 harvesting on private lands or nonfederal, that
19 can include state lands, county lands, city lands,
20 et cetera, is that we've adopted -- the Board of
21 Forestry has adopted some exemption authority to
22 provide for lower impact operations that result
23 from biomass harvesting to not have to go through
24 a full environmental analysis. Part of that is
25 done in the regulation, itself.

1 It allows harvesting of certain size
2 material within size limits, so that there's not
3 undue impacts to the natural resource. And at the
4 same time it requires other practices, such as
5 water quality protection, air quality protection,
6 those type of standards remain in place that are
7 operational. The main relief that's provided
8 there is for the cost to review and permitting.
9 So there has been progress in that.

10 Secondarily, under the Forest Service
11 and the other federal land ownerships that's been
12 a supply issue under renewables constantly. And
13 it's been one of the major complaints of the
14 biomass industry in California.

15 There's some progress being made in that
16 area in that the concept of what is referred to as
17 a stewardship contract. There's progress being
18 made under the Healthy Forest Restoration Act, and
19 funding being provided to the individual forest to
20 put those fuel-hazard-reduction projects out on
21 the ground and to make them active.

22 And those are low-cost contracts. That
23 material comes at a fairly reduced value to the
24 purchasers. So I'd say there's some progress in
25 the area of being able to get a more reliable

1 supply of biomass from federal lands.

2 Is that going to happen today? No. I
3 don't think that that's going to be fully
4 implemented within the next five years, probably.

5 But on the other hand, there's some
6 things that can help that, and that is some
7 continued backing for the Healthy Forest
8 Restoration Act to make sure that the federal land
9 managers get the dollars necessary in their
10 budgets to conduct and prepare the sales, and to
11 meet the standards of contract preparation that
12 they have.

13 Their constraints come under the
14 national Environmental Policy Act. But the cost
15 is borne more by the public than by the individual
16 investor, as it is on private lands.

17 I think that covers that. If there
18 isn't, I'd answer some questions. But I would
19 like to make just a couple of observations to go
20 along with those made by Greg on biomass, in
21 general.

22 The Energy Commission has put a lot of
23 time and effort into biomass. And I want to
24 recognize and thank them very much for that.
25 Because it does have a lot of those co-benefits of

1 fire hazard reduction, of honestly improved water
2 quality, and reduction of open burning and other
3 air quality benefits that go along with that.

4 But I don't think that it necessarily
5 gets a fair or level playing field in comparison
6 to some of the other renewables. I shouldn't --
7 maybe that's a bad statement; I'm sure it is, but
8 let's back it up and say that some of the reports
9 that's been put out by the Energy Commission, such
10 as the Governor's bioenergy plan, and reports that
11 it's sponsored along with the biomass
12 collaborative, there's a list of items in there
13 and recommendations on actions that would better
14 level the playing field for biomass, just from an
15 institutional aspect.

16 Solar, for example. Mr. Fong used an
17 example earlier. I try this one out and see if it
18 flies. Gets quite a bit of additional subsidy and
19 additional indirect governmental support that
20 doesn't get provided to biomass. The same is true
21 for several of the other renewables.

22 If that subsidy concept were levelized I
23 think you'd see the competitiveness of biomass
24 increase dramatically. Together with that in
25 starting to solve some of the supply issues, you

1 start to see a little better picture.

2 I think also along with that is the
3 question of the cost. Well, sure, if you've got
4 to haul biomass off the hill to the valley to
5 produce electricity, that costs you a lot of
6 money. If you ship the electron over the
7 transmission line, through distributed generation,
8 that cost is reduced quite a bit.

9 And the option of selling electricity at
10 different customers, the interconnection, the
11 wheeling, some of those things that are out there
12 that could be addressed either by the Energy
13 Commission or the Public Utilities Commission, I
14 think still have room for work.

15 I think if you look at the biomass
16 papers that are out there right now, there's some
17 consensus that between 1400 and 1700 megawatts of
18 power with just biomass available of residue
19 today. It can be captured within the next -- by
20 2010, if the efforts are made and the institutions
21 are revised.

22 So, I would like to say that I agree
23 with Mr. Adler that there is progress certainly
24 being made. But that there's room for additional
25 progress and incorporating some of the other

1 benefits that come from these renewables.

2 So, thank you.

3 MS. HAMRIN: Thank you, Doug. Jeff Lam
4 from Powerex.

5 MR. LAM: Good afternoon, Commissioners,
6 attendees of the workshop. I know time is scarce,
7 so I will be brief and probably file more detailed
8 comments in our written submission.

9 My name is Jeff Lam. I'm with Powerex.
10 We are a wholly owned marketing subsidiary of BC
11 Hydro.

12 My comments today touch upon a few of
13 the improvements that Fong had mentioned about the
14 RPS program and answer some of the questions I
15 think Commissioner Bohn had made earlier.

16 And our perspective, Powerex's
17 perspective, on California's RPS program comes
18 from maybe a different one than what's
19 contemplated in the legislation or in the actual
20 practical implementation of the program. And that
21 is of a renewable aggregator.

22 We do not own any renewable facilities.
23 We have rights to the excess renewable capability
24 of the BC Hydro system, as well as other northwest
25 supply. So, you know, what I bring, comments to

1 you today, gives you some practical realities,
2 maybe addresses some of the nonstandard issues,
3 and some of the flexibility that can be gained and
4 that would help California meet its RPS goals.
5 And also improve upon renewable development across
6 the west, as a whole.

7 The first issue, and I've limited it to
8 three priorities, as staff had advised me to do
9 so. And that's on the contract failure and
10 contracting process.

11 Certainly what we have found from an
12 aggregated perspective, the contract limit or
13 requirement of ten years or greater, does put an
14 impediment on contracting to allow a more flexible
15 limit, as Mohammed had mentioned in terms of LA's
16 approach to, you know, multiple term products,
17 five, ten, 15.

18 From an aggregator's perspective, like
19 Powerex, to offer products with those shorter
20 terms from our portfolio of renewable resources,
21 such as small hydro, will provide this incentive
22 to further build up our renewable base as a
23 composite of different term products.

24 And from a risk perspective, certainly
25 we find that, you know, with the developing nature

1 of not only California's RPS program, but programs
2 across the west, you know. The shorter term
3 contracts allows both the buyer and seller to
4 mitigate some of that risk and provide some
5 benefits in that regard.

6 The second issue that I want to touch
7 upon is related to the deliverability requirement
8 of out-of-state generators and Fong had touched
9 upon that, as well. And, you know, coined the
10 phrase of the banking and -- I guess banking and
11 shaping term, in which we had brought that issue
12 forth to the Commission years ago where we thought
13 that the current guidebook didn't reflect sort of
14 the realities of energy exchanging hands between
15 control areas.

16 And, you know, we certainly continue to
17 feel strongly that improvements in that area would
18 enhance offers into the California RPS program
19 from out-of-state suppliers and aggregators like
20 Powerex.

21 There is one issue specifically I want
22 to address that was raised in the consultant's
23 report. And there was a recommendation in the
24 report where it mentioned that the consultant
25 report recommended that there would a relaxation

1 to the delivery for out-of-state generators,
2 allowing delivery to nearby market hubs and
3 substations with utilities managing delivery risk
4 into the state.

5 Powerex's views on that has -- we've
6 echoed the same in the CPUC's resource adequacy
7 requirement, where we've stated that it may not be
8 the cost effective way to insure renewable energy
9 delivery to the IOU customers. And the reason why
10 we say that is that Powerex believes that the out-
11 of-state supplier or aggregator may be in a better
12 position to manage the congestion risk and take on
13 the obligation to deliver the energy into the
14 California ISO control area, resulting in lower
15 costs to the IOU customers.

16 I guess, in general, what our view has
17 been is that allowing out-of-state supplies some
18 more flexibility in how to deliver the physical
19 energy, renewable energy will result in more
20 renewable generation being offered, at more
21 competitive prices.

22 And whether you term a phrase banking or
23 firming or a monthly type true-up, or a more
24 extended true-up of renewable energy, that will
25 again enhance offers to California utilities.

1 Lastly, you know, Powerex believes that
2 from a practical point of view there are some
3 improvements that can be made to the certification
4 process. It also recognizes, you know, different
5 model of renewable supplier from an external
6 source.

7 And that's the renewable aggregator
8 where currently right now certification is
9 explicitly required from the owner of the
10 facility. And doesn't contemplate a third party
11 would certify an out-of-state facility or want to
12 register that facility, where they have
13 contractual rights, but not physical ownership
14 rights.

15 And so in closing, you know, we believe
16 that there is significant renewable potential, and
17 I think the Commission has recognized that in
18 terms of potential outside the State of
19 California, specifically in the Pacific Northwest,
20 in British Columbia. And that that renewable
21 potential can be tapped into to meet California's
22 requirements, as well as enhance the resource mix
23 for the entire western interconnection.

24 Thank you very much.

25 COMMISSIONER BOHN: May I ask just one

1 question. It's hard for me to understand how you
2 can have two people managing congestion. And I
3 don't doubt, and I may not understand it, I don't
4 doubt that if you were aggregating from a whole
5 series of sources you would be in a position to
6 manage congestion.

7 How would you work with the ISO or
8 whoever else you'd work with? Would you be
9 willing to subject yourself to their management of
10 the congestion process? I mean I just don't know
11 how you do that.

12 MR. LAM: Well, I think the point -- I
13 think my understanding of the consultant's report
14 was simply to say that the utilities would pick up
15 the energy outside the border point, and bring it
16 into California. Whereas, what we believe is that
17 a better outcome may be, is to allow the supplier
18 responsibility to deliver into the control area.

19 And thereby, as you said, take on the
20 congestion risk, managed, you know, through the
21 different points. But still be required to
22 obligate to deliver into the utility service
23 territory.

24 MS. HAMRIN: Thank you, Jeff. Cliff
25 Chen from UCS.

1 MR. CHEN: Thank you, Cliff Chen, Union
2 of Concerned Scientists. Appreciate hearing the
3 comments of all the other people in the room.
4 Agree with a lot of what's been said.

5 I don't have too much to add, though I
6 will note that I do think that reports of the
7 imminent failure of the RPS are a little bit
8 exaggerated.

9 It's pretty clear that there are
10 significant problems and challenges to overcome.
11 And it's pretty clear that the consensus among
12 people in the room is that the biggest challenge
13 is physical infrastructural one of transmission.

14 While I think it's good and useful to
15 talk about short-term contracts and unbundled
16 RECs, in the end it all comes back to
17 transmission.

18 And it's not clear to me that
19 overhauling the entire structure of the RPS at
20 this critical juncture in the program will produce
21 preferable results as far as the 2010 timeframe
22 goes.

23 There have been positive developments at
24 the PUC and at the ISO. And there have been over
25 2000 megawatts of contracts signed. There will

1 probably be dozens more signed this year. With
2 2010 just looming around the corner, I don't know
3 if now is the best time to make significant
4 overhaul changes to the program.

5 So I would just submit that rather than
6 trying to completely rebuild the road that we're
7 on, this is the road that we find ourselves on for
8 2010, I believe, for better or for worse. And
9 let's try to smooth that path instead of
10 completely rebuilding it.

11 Thank you.

12 ASSOCIATE MEMBER GEESMAN: I'm not going
13 to let you off quite that easily, Cliff.

14 (Laughter.)

15 ASSOCIATE MEMBER GEESMAN: Let's assume
16 the politics stay the same, and let me summarize
17 those as the utilities and other customer groups
18 will remain adamant that we don't pay too much for
19 renewables.

20 Do you think the existing program
21 structure is a good foundation to move beyond 2010
22 to the 33 percent 2020 goal that has been adopted
23 by both Commissions and the Governor?

24 MR. CHEN: I do think that there will be
25 significant changes needed to the structure, but

1 I'm going to withhold commenting on what those
2 changes are at this time.

3 ASSOCIATE MEMBER GEESMAN: Okay. So you
4 did get off.

5 (Laughter.)

6 MS. HAMRIN: Last, but not least, Rick
7 Counihan.

8 MR. COUNIHAN: I like to think last, but
9 best, but maybe I chose the wrong seat.

10 Commissioners, thank you very much for
11 having me here today. My name is Rick Counihan;
12 I'm with Ecos Consulting. But today I'm
13 representing the Alliance for Retail Energy
14 Markets, which is an alliance of six energy
15 service providers who provide retail electricity
16 services here in California.

17 I'd like to start my comments by saying
18 that the AReM members are committed to complying
19 with the California RPS 20 percent requirement by
20 the year 2010.

21 Most of the AReM members are active in
22 states all across the country which also have RPS
23 requirements. And they meet those RPS
24 requirements in those other states.

25 AReM has provided a detailed proposal to

1 the Public Utilities Commission on ESP compliance.
2 That was one of the issues brought up earlier
3 today. John mentioned it, and I think Pedro
4 mentioned it, as well.

5 We have provided a detailed proposal
6 that has the ESPs meeting the 20 percent
7 requirement by 2010, along with incremental
8 increases every year between now and then; a
9 detailed reporting and verification process; and
10 penalties to be assessed in the event of not
11 achieving it.

12 I will not -- at Jan's request I will
13 not reiterate all the details, but I probably will
14 attach it to our comments so you can see how
15 detailed it really is.

16 And in response to the staff questions
17 and the memo that came with this, in terms of
18 getting ESPs to participate, the single thing that
19 could happen to make it happen the fastest is for
20 CPUC approval of that proposal.

21 I will say, however, that I believe the
22 RPS is way too complicated. And I think there are
23 some incremental things that the Commissions,
24 different Commissions, could do to make it less
25 complicated without overhauling the entire system.

1 And I'll give three suggestions here
2 just in the spirit of the staff memo that came
3 with this.

4 Simplification number one. Why do we
5 have two RPS targets for every LSE? The data
6 indicates that we're a little over 10 percent
7 towards the 20 percent goal. No way are we going
8 to get the 20 percent without significant new
9 renewables.

10 In addition, if the existing renewables
11 go away, that's going to make it that much harder.
12 So why are we measuring these two separately? I
13 think an easy simplification, and I know, Greg,
14 you're with me on this; we've talked about this
15 before. Why not have one target, 20 percent,
16 instead of adding an incremental and a baseline
17 target.

18 Simplification number two. What's all
19 the focus on the length of the contract terms? I
20 think from a public policy perspective the outcome
21 that you want is either a contract signed, or
22 perhaps even actual megawatt hours generated.
23 What do we care if it's a six-year contract or a
24 13-year contract or a nine-year contract?

25 Third simplification. Following on V.

1 John White's comments, I would recommend that we
2 move to a RECs-based compliance once WREGIS is up
3 and running. There are 19 states in the Union,
4 plus the District of Columbia, that have RPS
5 standards. Of those 20 entities, those 20
6 jurisdictions, 17 of them either require RECs for
7 compliance, or allow RECs for some portion of
8 their compliance.

9 California is the only state in the
10 Union that has an RPS that has competitive
11 suppliers that doesn't, at this time, allow RECs.
12 RECs provide flexibility and liquidity, both for
13 the generators and for the LSEs.

14 And I think an important thing that's
15 missing from the debate in California is that the
16 use of RECs, they're an accounting mechanism. The
17 use of RECs does not prejudice a lot of the policy
18 issues such as geographic eligibility. Where you
19 have to connect, where you have to deliver.

20 Doesn't prejudice technology eligibility.
21 It doesn't prejudice new versus existing. It's an
22 accounting mechanism that makes it easier for
23 everybody to do business. And I commend the CEC
24 for funding the WREGIS effort and keeping that
25 moving forward.

1 So, I think those are three concrete
2 areas where we can simplify the existing process.
3 Does that solve all the problems? No. But we're
4 suppose to be brief, and so I'll just suggest
5 those three simplifications and let it go at that.

6 Answer questions, if you have them.

7 ASSOCIATE MEMBER GEESMAN: We've
8 certainly been advocates of a REC system at the
9 Energy Commission. And Commissioner Peevey is
10 well known for having attempted to fall on that
11 hand grenade at the CPUC. Been directed by
12 certain of the legislative leaders that the PUC
13 may not have that authority.

14 You indicated, though, that you don't
15 feel a REC system discriminates between new and
16 existing projects. And the argument has certainly
17 been made that RECs do not assure the construction
18 of new renewable projects.

19 And I'm curious as to whether you can
20 point to areas of the country where it's been
21 demonstrated beyond dispute that a REC system has,
22 in fact, led to new construction.

23 I'm familiar with the theoretical
24 arguments. I'm not clear on the empirical. And
25 I'm looking for that.

1 MR. COUNIHAN: Yes, well, I'm actually
2 very happy that you asked that question because
3 for the AReM members Ecos looked at renewable
4 development in the other states across the country
5 that have RPSs.

6 And in fact, what you see is that while
7 17 out of 20 jurisdictions allow RECs, there is
8 new renewable development in all of those. And
9 the one that a lot of people talk about that's
10 obvious is Texas, where all compliance is based on
11 showing up with RECs at the end of the year to
12 prove that you did what you did. And they've done
13 a couple thousand megawatts of new developments
14 since 2001.

15 But if you look at the other states,
16 also, you can see there's new renewable
17 development in virtually every state with an RPS,
18 and virtually every state allows RECs.

19 And I would be happy to append that
20 study to our comments for the use of the
21 Commission.

22 ASSOCIATE MEMBER GEESMAN: We'd
23 appreciate it.

24 CHAIRPERSON PFANNENSTIEL: Rick, on your
25 first simplification point where you would only

1 measure at the 20 percent and you wouldn't worry
2 about the interim targets.

3 MR. COUNIHAN: Excuse me, that's not
4 what I meant. What I meant was that, yes, there
5 would be interim targets, but you wouldn't have a
6 separate in 2008 incremental target and a baseline
7 target. You'd have --

8 ASSOCIATE MEMBER GEESMAN: This is IPT
9 versus APT.

10 CHAIRPERSON PFANNENSTIEL: Right, right.

11 MR. COUNIHAN: Right. That's correct.
12 My recommendation is that you have one target for
13 2008; one target for 2009; and one target for
14 2010.

15 CHAIRPERSON PFANNENSTIEL: I got it,
16 thanks.

17 MS. HAMRIN: John White, you have a
18 comment?

19 MR. WHITE: -- about the RECs issue is
20 that I think one of the things that's changed that
21 may give us some mechanism for integrating this
22 discussion is the debate on the climate targets
23 and the new generation performance standard
24 contained in Senator Perata's SB-1368, both the
25 tracking of the compliance with the climate

1 targets and the tracking of the compliance with
2 the generation performance standard is going to
3 involve similar activities as the tracking of
4 transactions between sellers and buyers of
5 renewable energy.

6 It seems to me that rather than waiting
7 for WREGIS, which has taken much longer than it
8 should have to develop, is that I think the Energy
9 Commission should build upon the platform that
10 already existed at one time for tracking retail
11 claims, and begin looking at trying to track all
12 these various similar kinds of transactions in a
13 way that is both transparent, and at the same
14 time, protective of commercial and confidential
15 information, all of which is going to be required
16 for each of those separate pieces.

17 And I think while there is still some
18 controversy about whether the PUC can act on its
19 own to allow the use of, limited use of RECs for
20 RPS compliance, the tracking function between
21 instate/out-of-state coal, imports, renewables old
22 and new, is all going to end up being similar kind
23 of stuff. And architecture seems to me to be
24 available to make that happen.

25 MS. HAMRIN: Dan Adler.

1 MR. ADLER: One related point and it
2 goes back to the rebuttable presumption. I think
3 I was a little bit flip in my answer that it is a
4 rhetorical device. I meant that that's really all
5 it is so far, but in the long run I think it's an
6 important procurement mechanism that allows for
7 the integration of all these various issues.

8 You can have a REC market; you can have
9 a carbon market; and really importantly a carbon
10 price in the general utility procurement process
11 that, over time, again in theory, makes the RPS as
12 a separate program, less and less important.

13 That, I think, in the long run, is where
14 this market-based approach, if that's the path we
15 continue on is where we're heading.

16 MS. HAMRIN: Anyone else who -- yes,
17 Pedro.

18 MR. PIZARRO: Just a ten-second comment
19 is I think as we look at whether it's Rick's or
20 Dan, I think your comments on how these things get
21 integrated, a key thing that I want to emphasize
22 again, is that we need to make sure that we're
23 employing these tools in a common way across all
24 load-serving entities who are having to comply
25 with them.

1 And so, you know, Rick, I think to your
2 point about the focus on long-term contracts, the
3 realities of today, we have a long-term contract
4 requirement on utilities. To the extent that the
5 Commission decides that it wants to try out a REC-
6 based approach, then let's try that out, but let's
7 make that accessible to everyone and not have
8 differential requirements, a long-term requirement
9 on utilities, and others being able to get, you
10 know, satisfy their RPS requirements with a one-
11 year REC demonstration.

12 Again, similar to the debate that we
13 have in resource adequacy.

14 MR. COUNIHAN: And, Pedro, I would say
15 that I totally agree that IOUs should have one
16 target, not two targets. Everything I said I
17 didn't specifically say ESPs, but I think simplify
18 the program.

19 ASSOCIATE MEMBER GEESMAN: I have two
20 gentlemen on the phone that we'll take questions
21 from before we go to a break.

22 First, Juan Sandoval from Imperial
23 Irrigation District. Mr. Sandoval?

24 MR. SANDOVAL: -- on behalf of IID, in
25 regard to what we have done in meeting the RFP,

1 you know, the RPS standards mandated by the state.

2 First of all, you know, a couple of
3 years ago our Board of Directors passed a
4 resolution to voluntarily comply with the state's
5 RPS. And last year in October 2005, IID submitted
6 an RFO for green energy. And we have received
7 several responses and we are really working on a
8 short listing of proposals.

9 And currently we are considering
10 acquiring 500,000 megawatt hours of energy. And
11 this is going to mean acquiring about 65 megawatts
12 of a capacity factor of 85 percent. And we'll
13 expect to meet the RPS by even a 30 as 2008.

14 Also, we have about 85 megawatts of
15 small hydro generation. This is several units of
16 lower than 30 megs, these fall in the Old American
17 Canal. And we believe that this small hydro will
18 qualify also to meet the RPS.

19 So, aside from that, you know, we have
20 made significant efforts in other arenas like the
21 transmission efforts. But I'll leave that
22 conversation for later discussion.

23 ASSOCIATE MEMBER GEESMAN: Thank you
24 very much. John Galloway, Union of Concerned
25 Scientists.

1 DR. GALLOWAY: I really don't have that
2 much to add except to say that, maybe reiterate
3 and try to drive home the point that I think
4 supply issues and transmission issues really are
5 at the top of the list. I know a lot of the
6 questions that were identified for this
7 afternoon's workshop really sort of look at
8 architectural features of the program.

9 And I think more important than trying
10 to come up with, you know, whether or not we
11 synch-up solicitation cycles or make them annual
12 or establish a schedule, I think rather than
13 digging around in that level of detail, I think
14 addressing issues that get more developers into
15 the process, whether it's to look at the lessons-
16 learned-type exercise that the PUC has been
17 beginning to undertake to look at how the
18 solicitations are going, and whether, you know,
19 issues around credit requirements and the posting
20 of credit collateral requirements, those types of
21 things.

22 But also I think there's some bigger
23 picture issues around what's happening at the
24 federal level. We've seen the boom/bust cycle in
25 the production tax credit, and the investment tax

1 credit causing a lot of consternation among
2 developers as they've either begun negotiations
3 with purchasers here in California, or they've
4 been hesitant to even enter because of the
5 financial risks that exist.

6 And I don't think that those issues are
7 ones that exist within the architectural features
8 of the program that either the CEC or the PUC can
9 necessarily take on.

10 But I think ones that are certainly
11 within the purview, particularly of the PUC, and
12 to some extent the CEC, are transmission. I know
13 that's part of a separate conversation.

14 So I would sort of put, reframe how
15 we're talking about the very specific features of
16 the program. Focus on those big-picture issues.
17 And getting, you know, getting the business
18 climate right here in California.

19 With respect to the use of RECs I know
20 there have been several comments on the panel just
21 a few moments ago regarding going to a REC trading
22 regime to create more flexibility within the
23 program. UCS certainly agrees with that.

24 What I would turn the question back on
25 to the CEC, and particularly to staff, is the

1 ability of the type of architecture that Mr. White
2 described for the retail credit program to handle
3 those kinds of transactions today.

4 I would appreciate hearing from staff as
5 to the capabilities of, you know, what you have in
6 place right now to actually do that.

7 What I would hate to see is that we end
8 up spending a lot of time creating, you know,
9 having the staff at both Commissions go round and
10 round trying to create something new under the
11 assumption that it's not new, it already exists.

12 Because from my experience both of
13 having worked at the Commission watching the
14 verification process of resources to establish the
15 baseline for just the IOUs, how to say nicely was
16 an arduous process, to then try to undertake
17 something where the Commission Staff are having to
18 verify REC transactions that don't fit into the
19 nice neat box that we have presently with the
20 bundled transactions that the IOUs are entering
21 into.

22 I'm just afraid we end up spending a lot
23 of resources in a direction that WREGIS is
24 supposed to inherently capture. Now, granted,
25 that timeline has been pushed back further than

1 people have expected.

2 So, I guess it would be helpful, not
3 only for myself, but for other stakeholders on
4 this panel, to hear how that capability might
5 actually work, irrespective of the question of
6 whether or not the PUC actually has the authority
7 to allow unbundled RECs.

8 So, I would pose that as a question.

9 ASSOCIATE MEMBER GEESMAN: Yeah, I would
10 only answer that the same people designed the
11 state software procurement process that currently
12 WREGIS is mired in that designed the CPUC
13 transmission licensing process that Tehachapi and
14 other important projects are mired in.

15 The capabilities that can be added onto
16 WREGIS are theoretically pretty broad, but
17 navigating the software procurement process that
18 has been in place since the Oracle scandal is not
19 a very timely process.

20 I mean once WREGIS is lodged at WECC it
21 may open up more opportunities for add-ons. But,
22 again, it's a time-consuming process if you're
23 going through the State of California process.

24 DR. GALLOWAY: Sure. And, Commissioner,
25 my comment was focused on the sort of pre-WREGIS

1 idea of going to a REC regime in absence of WREGIS
2 being available. Let's say WREGIS were to be
3 pushed to the end of 2007, would there be an
4 interim, the capability of establishing an interim
5 tracking system. I think there's a belief that
6 permeates that that structure already exists and
7 is left over from the retail choice era.

8 And I guess what I'm asking, the
9 question, and maybe positing that it may not be as
10 readily off the shelf as some make it out to be.
11 But that's what I'm -- I guess I'm wondering if,
12 you know, some of the staff there that have worked
13 on the consumer credit account, that dealt with
14 those kinds of tracking issues, could, you know,
15 offer some insight. If not now, you know, maybe
16 at some point in the coming weeks.

17 I think it would be helpful to sort of
18 help all of us who are trying to frame the debate
19 before both Commissions, and particularly before
20 the PUC.

21 ASSOCIATE MEMBER GEESMAN: Well, rather
22 than put Tim Tutt on the spot right now, --

23 DR. GALLOWAY: Oh, why not?

24 ASSOCIATE MEMBER GEESMAN: -- why don't
25 we take that under advisement and give you a more

1 well-considered response. My belief, from when we
2 operated that before, is if you can live with
3 about a 120-day lag, that should be within our
4 capability to do, based on past performance.

5 DR. GALLOWAY: Well, Commissioner,
6 that's appreciated.

7 ASSOCIATE MEMBER GEESMAN: And we'll
8 provide more on that in the future, John.

9 One comment from Bob Burton before we go
10 to a break. Bob from the Insulation Contractors
11 Association. He's been waiting patiently.

12 MR. BURTON: -- I don't claim any
13 expertise (inaudible) -- but there were two items
14 that were discussed today that I do have some
15 expertise, and I'll make a very brief comment.

16 First of all, in my previous life I was
17 a Corps of Engineers officer who spent a number of
18 years in contract administration. And it is not a
19 given that a well-established producer will
20 necessarily be the best producer. He might merely
21 have the best, most aggressive and unprincipled
22 lawyers. So, when I was a contract --

23 ASSOCIATE MEMBER GEESMAN: An oxymoron.

24 MR. BURTON: -- and I knew a contract
25 was going to be administered by me, and the winner

1 was a small contractor, I would breathe a great
2 sigh of relief because I'd be quite certain that
3 this guy is fairly likely to work on the job
4 rather than fly-specking the contract.

5 So, since these contracts that you're
6 talking about are going to be written from
7 scratch, it's my firm belief that they will be
8 easily fly-specked. And therefore -- since
9 they're being negotiated. And therefore I don't
10 encourage a process that will seek out the most
11 established contractors.

12 The other subject that I would discuss,
13 having been since 1965 a lobbyist and a close
14 observer in the Legislature, to briefly summarize
15 our tax system in California varies greatly in its
16 income with the economic and top-markets -- cycle.
17 But the State of California's Legislature has
18 never recognized this.

19 So we have a structural defect deficit
20 which runs anyplace to \$2 to \$8 billion a year,
21 depending on whether it's a good year or a bad
22 year.

23 The way they make this deficit up is by
24 borrowing. And most commonly they borrow from
25 anyplace they got their hands on. For example,

1 the transportation fund routinely loses most of
2 their money to that. And it's called borrowing,
3 but in fact, it's theft, because they have never
4 paid any of it back.

5 So, if you have any hopes of setting up
6 this escrow process the only way you can do it is
7 by very publicly embarrassing a lot of people, and
8 embarrassing politicians is usually not a
9 productive process for other relations with those
10 same people.

11 So my advice is you're probably stuck
12 with not getting this money put into escrow. And
13 that's my brief comments. And I did not come
14 to -- did not really expect to make any. I
15 thought I would -- but since you did discuss a
16 subject I knew something about, that's what I came
17 about. If a person has a question I would be
18 happy to answer it. I'm sorry if I have not been
19 fully candor -- full of candor.

20 ASSOCIATE MEMBER GEESMAN: Thank you,
21 Bob. Why don't we break until 4:00.

22 (Brief recess.)

23 MS. DOUGHMAN: To start our discussion
24 on transmission issues, David Withrow from the
25 California ISO will talk about their petition to

1 FERC. And so here he is.

2 MR. WITHROW: Thank you. David Withrow
3 with the ISO. I'm here with Robin Smutny-Jones,
4 who is coming back shortly I think, and Dave
5 Hawkins. And I'm just going to talk briefly about
6 one component of the ISO's renewables initiative
7 that was explained to our Board at the last Board
8 meeting involving the ISO's intent to pursue a
9 petition for declaratory order at FERC regarding
10 renewable transmission.

11 As we all know, the ISO tariff currently
12 reflects current FERC policy which divides new
13 transmission facilities into sort of two buckets,
14 one network facility that provides some degree of
15 integration with the ISO integrated grid, which
16 are justified by reliability or economic reasons.
17 And the second bucket of gen-tie or direct
18 interconnection facilities that are required just
19 to interconnect the generator with the grid. And
20 those costs are borne entirely by the generator
21 who's developing the facility.

22 Therefore, under a number of complaints
23 and a great burden of proof that this is providing
24 a distinct barrier of entry for renewable
25 development, the ISO is considering a category of

1 transmission that is distinct from network
2 facilities that are approved for reliability or
3 economic reasons. And that would be the basis of
4 our declaratory order.

5 It would include a proposal for a cost-
6 recovery mechanism by which the costs are
7 initially allocated systemwide through the ISO TAC
8 charges, and then recovered as renewable
9 generators come online.

10 Again, the ISO anticipates a two-step
11 process where we would seek a declaratory order
12 with FERC that provides policy guidance from FERC
13 before we take the additional, more time-consuming
14 and detailed step of filing an actual tariff
15 amendment before FERC. We figured it would be a
16 more efficient use of our time and our
17 stakeholders' time to get the policy guidance from
18 FERC established before we take that additional
19 step.

20 There have been recent regulatory
21 developments in this realm. Edison filed a
22 similar declaratory petition which FERC rejected
23 last year; and more recently, the PUC has issued
24 its own order for a backstop approval at the
25 retail level for recovery of transmission dated

1 for the RPS standards.

2 The ISO anticipates that our policy
3 proposal would be quite similar but not identical
4 to the PUC backstop authority.

5 Some of the key policy issues that have
6 been identified in a whitepaper that was recently
7 posted on the ISO website includes a, if you will,
8 a straw proposal for some principles that would
9 define the facilities that might be eligible for
10 this distinct category of transmission.

11 Namely that there be high voltage bulk
12 transfer facilities that are currently not
13 classified as network upgrades. And that are
14 expected to be placed under the ISO operational
15 control. And that specifically they would be
16 built in an area with significant potential for
17 renewable resources. And the ISO would likely
18 rely heavily on the CEC and PUC to identify those
19 specific renewable areas.

20 The second part would be a cost-recovery
21 mechanism which suggests rolled-in rate treatment
22 of unrecovered cost for these transmission
23 facilities which would be paid initially by all
24 users of the ISO grid. But that, over time as
25 developers latched onto the grid, that they would

1 reimburse all ratepayers for their share of the
2 line as the generation comes online.

3 Just briefly, the policy -- or the
4 process that we'll be following leading up to this
5 filing of a petition, we've already informed our
6 Board and got some guidance from them. We posted
7 a whitepaper about a week ago.

8 We have a stakeholder meeting tomorrow
9 morning in Folsom from 9:00 to 12:30 p.m. in which
10 we hope to get both a lively discussion and some
11 written comments within a week that would help
12 guide our development of these principles and the
13 declaratory order.

14 We anticipate seeking Board approval for
15 the principles for the declaratory order at the
16 very next ISO Board meeting on August 3rd. And to
17 file the petition soon afterward.

18 In closing I'd suggest we fully intend
19 to work very closely with the CEC and the PUC in
20 developing, frankly, the best legal arguments that
21 we can muster and see what we can -- see what
22 policy guidance we can get from FERC.

23 ASSOCIATE MEMBER GEESMAN: I think this
24 is a terrific initiative. And want to thank you
25 and Yakout, in particular, for doing the work that

1 launch it. I think the State of California has a
2 lot at stake in your success with this. And I
3 hope that message is not lost on the various munis
4 who tend to be late converts to the renewable
5 cause, but seem to file form oppositions to most
6 of your various proposals at FERC.

7 I think all of us need to work together
8 to make certain that the state's interests prevail
9 here.

10 COMMISSIONER BOHN: Can I ask a question
11 just for a second. Presumably there's some reason
12 to believe that the FERC will grant this request.
13 Are you asking, as a newcomer in this whole
14 process, are you asking the FERC to change an
15 articulated policy? Or are you asking them to
16 clarify a policy which is currently ambiguous?

17 MR. WITHROW: It is possible, depending
18 on how we frame the petition, that this could set
19 some new national precedent for a specific
20 category of transmission.

21 I would note, there's been some change
22 in the membership of the FERC since Edison's
23 petition last year. There has been increased
24 focus on renewables and the efforts that
25 transmission can contribute to renewable

1 generation over the last year. And there may be
2 hope that more refined and careful legal arguments
3 may prove to be a different result compared to
4 what happened last year.

5 The ISO is pretty open to suggestions.
6 And that's one reason why we're soliciting very
7 strongly some stakeholder input from this
8 community and from as many people as we can get,
9 to devise the best legal arguments that we can
10 get.

11 COMMISSIONER BOHN: So I translate that
12 to mean you're hoping to change the existing
13 policy by virtue of marshaling good arguments that
14 will form a national precedent, as opposed to some
15 narrow legal exercise?

16 MR. WITHROW: I think that's the
17 directions of our management right now. And I
18 would reiterate, this is a very high priority, is
19 very intensely focused and involved in this
20 initiative.

21 ASSOCIATE MEMBER GEESMAN: Thank you,
22 David.

23 MS. DOUGHMAN: Our next presentation
24 will be sort of a joint presentation. We have
25 Dave Hawkins sitting at the table and Robin

1 Smutny-Jones actually giving the presentation. I
2 believe Dave Hawkins will be available to help
3 answer any questions.

4 MS. SMUTNY-JONES: Good afternoon. I'm
5 Robin Smutny-Jones impersonating Dave Hawkins, who
6 came down with a -- he's not contagious anymore;
7 you don't need to leave the room, but he lost his
8 voice, so I'm Dave's voice. And he's going to
9 channel information to me as I'm up here speaking.

10 Chair Pfannenstiel, Panel Members, thank
11 you for having the ISO here today to address this
12 really important topic. And Dave Withrow just
13 took the words out of my mouth that I was going to
14 lead with, which is the intense focus that the ISO
15 is placing on helping the state meet the RPS
16 goals, and all the things that we can do to
17 further that, you will see a great deal of
18 dedication to.

19 This is from the Board level to the
20 officers to management and everyone down. We're
21 very committed to this effort. And Dave will
22 croak out some help if I need it.

23 As mentioned, this is a top priority for
24 the Board to meet the RPS goal. There are three
25 main areas that the ISO is engaged within that

1 affect the RPS goal transmission planning as the
2 obvious one. That's the sort of finale of the
3 day. Everybody's been talking about that being
4 one of the key pieces missing to make all this
5 come together.

6 Markets and operations also become
7 critical. How we structure the scheduling
8 requirements; how we help the PIRP program, which
9 is participating intermittent resource program,
10 become better over time so we can accommodate the
11 resources into the grid. Those are the areas in
12 which the ISO can contribute.

13 Here's a chart that shows basically
14 existing and potential new renewable resources.
15 It's based on some CEC material. And you see
16 there's a lot of green, there's a long way to go
17 to get to these targets. And this is available to
18 you to look at. I don't think I need to spend a
19 lot of time talking about it unless you have
20 specific questions.

21 I definitely don't want to talk very
22 much about this chart. It's really busy, and it's
23 getting late, and I'm going to try and keep you
24 all on time, but, you know, I'd love to go into
25 depth on excess marginal loss revenues and MRTU

1 and ramp forecasting, but, gee, there's just not
2 enough time.

3 (Laughter.)

4 MS. SMUTNY-JONES: I think I want to
5 make one more point before opening up for
6 questions from ISO and obviously we'll be
7 available to help with the Q&A discussion that's
8 coming next.

9 Our efforts to potentially bring about a
10 new paradigm with respect to how transmission gets
11 approved, including this new category of
12 transmission. By the way, we are trying to come
13 up with a new acronym, and this is the perfect set
14 of brains to help with that effort.

15 And yesterday we came up with TRG, but I
16 like TARGET, so it's the transmission for
17 renewable generating tors. If there's -- I'm sure
18 there's a better acronym out there somewhere. But
19 we liked TARGET and we were trying to force it in
20 there somehow, so please help with that effort.

21 The effort that the ISO undertakes that
22 Mr. Withrow spoke of is critical and the help
23 support that we get from the state regulatory
24 entities, from the stakeholders, is extremely --
25 utilities, everyone, it's critical. The ISO's in

1 a unique position to provide regional planning
2 guidance to the state.

3 We have a perspective of the grid that's
4 larger than just any single utility. We can't do
5 it alone. We have to have help from the
6 regulatory entities, the utilities, investor-owned
7 and municipal utilities alike. We'll continue to
8 try and bridge whatever jurisdictional turf issues
9 we've had in the past. We simply don't have a
10 choice but to do that, by the way. We must figure
11 out a way to coexist all together and move the
12 state along.

13 But we are counting on the state being
14 the pillar underneath us with respect to the
15 arguments that we put forth to FERC. And we can't
16 over-emphasize the help we're going to need from
17 you all.

18 Thank you. Look forward to questions.

19 MS. DOUGHMAN: Our next speaker is
20 Mohammed Beshir from the Los Angeles Department of
21 Water and Power. He'll provide an overview of the
22 green path transmission project.

23 MR. BESHIR: Good afternoon. Thank you,
24 Commissioners, again. I have just a brief
25 discussion on the green path project that, as you

1 know, the LADWP, Imperial Irrigation District and
2 Citizen Power have been engaged in development of
3 transmission project in the -- with the main goal
4 of accessing the geothermal resources in the
5 Imperial Valley.

6 So, in general, the green path project
7 consists of three components. I just want to make
8 sure you understand those distinctions and the
9 differences.

10 We have what we call green path north
11 transmission project. I'm going to give you a
12 pictorial of that shortly. And we also have the
13 green path internal IID upgrade. And we have the
14 green path southwest transmission project.

15 So those are three coordinated project
16 under the green path project. But there are some
17 distinctions I need to make.

18 The main goal of the projects, of
19 course, is to access the 2000 megawatt of
20 potential geothermal resources in the Imperial
21 Valley, as was validated in the study done by the
22 CEC in conjunction with others not long ago.

23 LADWP interest is strictly on the green
24 path north transmission project. So I just want
25 to make that distinction.

1 The pictorial I have on the screen is
2 essentially probably you've seen this thing. This
3 is just to describe the different components of
4 the green path. Have a pointer here? Okay, I
5 guess I -- okay, thank you. Okay, that's okay. I
6 can use this cursor here.

7 What we have here is this is the
8 northern green path north. And the northern point
9 essentially goes from this area, Devers or Indian
10 Hills, all the way to a transmission network LADWP
11 owns.

12 We have the internal IID upgrade, which
13 is to facilitate the development and enable the
14 delivery of the geothermal resources in the
15 Imperial Valley, as well as the transmission going
16 south and west, which is a green path southwest,
17 which is essentially IID and Citizen has been
18 working to develop.

19 For LADWP the interest is in the green
20 path north, interacting to Indian Hills or Devers
21 area. Guess we are still evaluating a ways to
22 interact and interconnect that station, as well as
23 going up to our -- to existing to 87 system and
24 building a new transmission line with a potential
25 interconnection to the Edison system or California

1 ISO in that area.

2 The project information, it's a 500 kV
3 transmission line for the green path north.
4 Potentially 100 miles, depending on the
5 configuration we choose. It could go at Devers or
6 somewhere in the area of Devers; or close by to
7 that station.

8 We're also looking at some other
9 upgrades in our existing 287 line to a 500 kV to
10 be able to make those interconnections and make
11 the power flow the way we want it.

12 Additional transmission expansion into
13 IID system to access the geothermal resources.
14 And the potential from 1000 to a 1600 megawatt
15 project. Definition, ownership, LADWP, we're
16 looking about 80 percent with 20 percent being
17 others.

18 Project, we are looking to be in service
19 in 2010. Costs, approximately \$300 million. We
20 are in the WECC rating process. We have obtained
21 phase one. We are in the phase two process. And
22 we are working through the environmental process
23 and preliminary design.

24 Some of the key issues is, of course,
25 routing, transmission routing is a consideration.

1 We are looking at many different areas of station,
2 where it's going to be. Rating issue, as I
3 mentioned. Earliest participation agreements.
4 And power delivery.

5 These are some of the transmission
6 routes we are looking at with many many different
7 challenges on different routes we select. We are
8 looking at the different opportunities, and issues
9 with environmental and, as you can see, we do see
10 potential likelihood moving the project up, going
11 on the green side on the north, which has less
12 environmental issues.

13 But I'm just showing you, this is really
14 we are working very hard trying to get the project
15 going on schedule. This is the project schedule
16 we're working on. The green is where we are
17 today. And we're working hard on system planning,
18 preliminary transmission design work, station
19 design work, environmental study, contract
20 development. Hopefully with those done, we'll
21 move on to detailed design, procurement,
22 construction and we try to get in the schedule
23 into by 2010.

24 Continue with initial some next steps
25 for us. Continue with the environmental, system

1 studies, as well; and also doing some preliminary
2 design, sending our RFP for additional help from
3 resource point of view. And also to get in some
4 approvals internally within our system.

5 So that's, in general, what the green
6 path north is, and what the Department has been
7 working on, try to make.

8 I just want to note, this is not the
9 only transmission project LADWP was working in
10 conjunction with renewables. As I mentioned
11 earlier, we are working on the -- get into the
12 Tehachapi. We building today a ten-mile line, as
13 I mentioned. And also on the STS.

14 In addition to that we're working
15 internal to our system to interconnect as a
16 renewables as they come. Thank you.

17 MS. DOUGHMAN: Jim Avery from San Diego
18 Gas and Electric was planning to speak about the
19 Sunrise transmission project, but I believe he --
20 so, please go ahead.

21 MR. AVERY: I snuck in. I didn't bring
22 any presentation materials because I think you've
23 probably seen it all already. What I wanted to do
24 is to take the opportunity and talk about the
25 Sunrise power link, and in conjunction with the

1 green path southwest.

2 Just a few short weeks ago San Diego Gas
3 and Electric signed an agreement with the Imperial
4 Irrigation District, along with Citizens Energy,
5 to collaborate on the development of the objects
6 to make the overall project a reality.

7 The opportunities, and I sat here this
8 morning or earlier this afternoon and had an
9 opportunity to hear all the things that were said
10 about the development of renewable energy and what
11 is needed to promote further development of
12 renewable energy.

13 And first and foremost what I heard and
14 what I have seen is that we need transmission.
15 And I don't think anybody really disputes that.

16 For San Diego we have, and you heard
17 Terry Farrelly talk about this morning, that we
18 have been very aggressively pursuing and are very
19 optimistic that we will meet or exceed the state's
20 goals of 20 percent by 2010.

21 But the only way that we see that we're
22 going to be able to do that is with the advance of
23 transmission. And toward that end we started a
24 project that will satisfy several things on our
25 system.

1 Number one, the ability to satisfy the
2 reliability needs that are covered under resource
3 adequacy by the CPUC. And the ability to also
4 meet our 20 percent goal for renewables.

5 And with that in mind, when we started
6 looking around for the right place to go to meet
7 both of those objectives, Imperial Valley was the
8 logical place for us.

9 We have already signed contracts for
10 several hundreds of megawatts of renewable energy
11 in Imperial Valley that will be delivered across
12 the Sunrise power link.

13 And we are negotiating and very close to
14 many hundreds of more megawatts that will be
15 delivered across that line. And in the end, we
16 will, before this project ever gets approved,
17 probably have well over 1000 megawatts that will
18 be delivered across the Sunrise power link, all
19 renewable energy.

20 And that's a combination of solar power,
21 not just from one developer but from multiple
22 developers; wind resources and geothermal
23 resources. And the potential for biomass, as
24 well.

25 And we've had discussions with all of

1 these, and we will continue to do that until we
2 meet those goals.

3 If I look at this project it is no small
4 undertaking for us. It is a major undertaking.
5 We have started the process several years ago, and
6 looking at potential for routes. We have had an
7 extensive program out in the public looking for
8 public participation, public awareness, and
9 actually getting the public to help us find the
10 right location for the facilities and the right
11 types of facilities.

12 We have been doing an extensive amount
13 of work preparing to file our proponents'
14 environmental assessments, which will be filed in
15 the first week of August with the California
16 Public Utilities Commission.

17 And with that, I open myself up for any
18 questions or comments or observations.

19 ASSOCIATE MEMBER GEESMAN: Jim, we've
20 talked about the project at a number of our
21 hearings before. Obviously identified it as a
22 priority for the state in the 2005 Strategic
23 transmission Plan that was a part of the IEPR.

24 It's pretty clear all these projects are
25 always going to encounter localized opposition.

1 And we're no strangers to that in the power plant
2 siting process.

3 But I wonder if, in your experience thus
4 far with the Sunrise project, if you're
5 encountering more regional or statewide interest
6 that have voiced opposition to the project.

7 MR. AVERY: I think overall, when we
8 started out the process we did this differently
9 than we did when we did the Valley-Rainbow
10 process. In that case we followed what I'm going
11 to call the traditional utility approach. And
12 that was behind closed doors we figured out what
13 we wanted, where we wanted it, and then we filed
14 an application and went to the public.

15 In this case long before we ever filed
16 our initial applications, we started a public
17 outreach. And that public outreach was long
18 before we identified a corridor. And we stirred
19 up a lot of opposition out of fear.

20 But I think that's not necessarily a bad
21 thing, because we've learned an awful lot from
22 that process. And in this case there are segments
23 of transmission facilities that we're proposing to
24 build underground because we recognize the impacts
25 it has in particular areas.

1 We've also changed the routing
2 significantly through the course of events in
3 dealing with the communities. We've learned some
4 things about some Native lands, Native American
5 lands, and where there are some burial sites.
6 We've learned a lot about the existing
7 transmission; where the corridors were. And we
8 identified that we created problems 80 years ago
9 when we built transmission, and this is an
10 opportunity to fix some of those problems at the
11 same time.

12 And we've been working very diligently
13 with state agencies, with federal agencies, with
14 virtually anybody who's willing to talk to us.
15 And what we've found is we're not necessarily very
16 popular by some special interest groups.

17 But I think in the end what we're trying
18 to do is take the opportunity that we have before
19 us today, and that is like a lot of the utilities
20 in the state, we are short on capacity. And if we
21 can take the opportunity and fill that deficiency
22 first, with energy efficiency, demand response and
23 renewables, we think we're doing the right thing.

24 But we have a window of opportunity that
25 if we don't do it today we're going to have to

1 fill it up with gas generation, and then we'll be
2 in the same position we were in ten years ago when
3 everybody was saying there's no room for
4 renewables.

5 Well, if we pursue it today, we get the
6 transmissions in place today, we can actually get
7 the contracts today.

8 One of the things that I heard this
9 morning with great interest, and I absolutely
10 agree with the notion that there are a lot of
11 small development projects out there that the
12 developers don't necessarily have the experience
13 or the capability to get through the process that
14 we put them under. And that process is a big
15 process; it's not just the utility, it's all of
16 the different constituents who have an interest in
17 this.

18 And what we've been trying to do to deal
19 with that is actually help some of the project
20 developers get through that process, dealing with
21 federal lands, dealing with state lands, dealing
22 with community issues and so on.

23 But I like the things that I heard this
24 morning about the notion of perhaps crating an
25 enterprise in the state that also takes on a role

1 of helping the developer to actually come to
2 reality. No one wants to see a project fail. And
3 in our case, we have had one project fail, and it
4 was because we didn't do enough to help that
5 project get through all of the red tape they had
6 to get through.

7 Now, they're coming back to us. And, in
8 fact, I'm optimistic that they ultimately will
9 develop. They've learned an awful lot, and we've
10 learned an awful lot through the process.

11 But if I look at the transmission
12 system, it is hopefully inadequate to try to
13 capture the opportunities that are around us
14 today. And if we don't do something today we're
15 going to lose those opportunities again.

16 And I think the Sunrise power link and
17 in the work we've been doing with Imperial
18 Irrigation District and Citizens Energy is a great
19 opportunity. I mean here's a line that is going
20 to provide 1000 megawatts of reliability to San
21 Diego. Why can't we fill that with renewables
22 today. And that's the goal that we've set out is
23 to do exactly that.

24 And I think there's just a wonderful
25 opportunity for the state and it's not just what

1 we're doing, it's what others are doing. And we
2 need to do everything we can to remove those
3 barriers.

4 But getting back to your first question,
5 is the opposition localized and it is specific on
6 one or two points. I think for the most part it
7 is. I think that there's a lot of misinformation
8 around our project and other projects that suggest
9 that we're doing some bad things.

10 But I think that those people who have
11 come and met with us and looked at what we're
12 trying to do understand that this is an
13 opportunity that we can't give up.

14 I will tell you there's a hot point, and
15 that is we need to go through the Anza-Borega
16 State Park. And questions have been asked to us,
17 well, why don't we go around the park. Well,
18 anybody who knows anything about the Anza-Borega
19 State Park in San Diego knows it is the eastern
20 border to San Diego. And there just is no way
21 around it.

22 So the course of events that we've
23 traveled or decided here is we have an existing
24 corridor through the park. Why not remove those
25 facilities and build the new facilities in their

1 place. And work with the State Parks to actually
2 mitigate perhaps some problems that we created 80
3 years ago.

4 And I'm confident we can do all of that.
5 And we're willing to listen to anyone who has
6 ideas that we can do it better.

7 ASSOCIATE MEMBER GEESMAN: I appreciate
8 your keeping us up to date on that. And, as I've
9 indicated, this is a project that we identified
10 last year as one of statewide significance. And
11 we intend to continue to pursue it as you go
12 through the process.

13 MR. AVERY: Thank you.

14 CHAIRPERSON PFANNENSTIEL: Jim, how long
15 would you say you've been at the Sunrise project?

16 MR. AVERY: The Sunrise --

17 CHAIRPERSON PFANNENSTIEL: I know it's
18 hard to define the starting point on it, but what
19 would you consider it to be?

20 MR. AVERY: The Sunrise project is
21 something that built off of a project we started
22 back six, seven years ago when we started out with
23 Valley-Rainbow. And it took us three to four
24 years to get through the regulatory process.

25 And in the time that when we initially

1 started the project and then actually got into the
2 hearing phase, massive development happened around
3 us. And land was acquired that was put under
4 federal trust. And it basically closed up the
5 corridor.

6 If I look at San Diego there are
7 probably 200 miles of border that separate San
8 Diego from the rest of the United Airlines. And
9 out of those couple hundred miles all of it is
10 covered now by either developed federal land,
11 being Department of Defense, Wilderness, national
12 forest, state park or Indian reservation. And the
13 little bit that's remaining is built out with
14 homes and businesses.

15 So we have to look somewhere; and we
16 though the prudent course of action was to go
17 through where we had an existing corridor. When
18 that project failed, it failed partially because
19 at the time, number one, a lot of the development
20 that happened around us in the time it took to get
21 there; and number two, there was the expectation
22 still at the time that thousands of megawatts of
23 merchant generators were going to come to bear.

24 Well, none of those have materialized.
25 None of them. And it then put us immediately into

1 the situation where in 2003 we issued a request
2 for offers for grid reliability just to satisfy
3 the reliability needs.

4 And in doing that we put first that we
5 were going to take from renewable resources first.
6 And we did. And we've entered into a number of
7 contracts in San Diego for renewable resources.
8 And that was after advancing our energy efficiency
9 and demand response programs, as well.

10 And then we looked at the advance of
11 additional fossil generation. But that was just a
12 stopgap measure to buy us the time to get the
13 transmission.

14 So if I look at the project today, where
15 we are today, and we'll be filing it again in
16 August, the project really started in the late
17 '90s. And it's gotten us to where we are today.
18 And it is our goal to have it in service before
19 the summer of 2010.

20 CHAIRPERSON PFANNENSTIEL: Thank you.

21 MS. DOUGHMAN: Okay, I think we'll move
22 to the roundtable discussion and public comments.
23 And the moderator will be Rich Ferguson from the
24 Center for Energy Efficiency and Renewable
25 Technologies.

1 MR. FERGUSON: Yeah, for those of you
2 who don't know me, I'm the Research Director, the
3 technical guy, the guy who tries to keep the
4 numbers honest at CEERT.

5 My colleague, Dave Olson, and I have
6 been involved with the processes that underlay
7 both the Tehachapi and the Sunrise projects, the
8 Imperial Valley implementation group and the
9 Tehachapi collaborative study group at the PUC.

10 So I've been in this game for a long
11 time and now we're out at the ISO with (inaudible)
12 death march trying to get all this stuff analyzed
13 and to the Board by August 3rd I guess it is now.

14 So, anyway, I was under instructions
15 that the PUC -- I mean that the Energy Commission
16 and staff need the answers to these five questions
17 that were in appendix A or attachment A or
18 whatever they called it.

19 And I'm going to take some liberties
20 here and start with not take them in order. A lot
21 of us are going to be out at the ISO tomorrow
22 morning to strategize on this FERC filing. And
23 question number 9 asked for suggestions about how
24 to do that. And since we can relay them into the
25 group tomorrow, we might as well start with that.

1 The question is ways to amend the ISO
2 tariff to allow interconnection of large
3 concentrations of renewable generation and so on.
4 Basically if we go back to FERC what should we ask
5 for and how should we ask it.

6 So, who would like to begin, I guess, is
7 what -- all right. Nancy.

8 MS. RADER: Nancy Rader, again, with the
9 California Wind Energy Association. I'm going to
10 rain on this parade. Excuse me, but before I
11 clobber the ISO about this idea I first want to
12 say how much we appreciate the transmission
13 planning and scheduling and PIRP work you're
14 doing, which is absolutely fundamentally
15 important. And you're doing an incredible job on
16 it.

17 So, I'm surprised about this idea that I
18 just heard about in the last couple of weeks. But
19 this idea of a third category of renewables
20 transmission financing.

21 Just a couple of points. First of all,
22 I don't think we need it; it's not necessary.
23 That's why we have Public Utilities Code section
24 399.25, to allow the state to provide the
25 necessary cost recovery assurances that we need to

1 get renewables transmission built in this state.
2 And that applies both to network and non-network
3 lines.

4 The way that non-network cost recovery
5 will work will tap any user of the transmission
6 line, that is if a municipal utility purchases
7 power from the constrained area, it will pay a
8 portion of the costs through the power purchase
9 agreement, because the generators will pay a pro
10 rata share of non-network line costs. So there's
11 really not an issue of costs being spread.

12 The issue is really covering the risk,
13 the risk that generators will not show up to use
14 the non-network transmission line. That risk is
15 in our control. If we want to meet the RPS, if we
16 do meet the RPS, the lines will be fully utilized.
17 And there's just really no reason to go to FERC to
18 try to completely overturn the tables, the policy
19 framework that has underpinned FERC transmission
20 ratemaking for the last 50 years.

21 We think the effort is doomed. And I
22 can go over the legal principles if anybody cares,
23 but we -- you know, this is deja vu all over
24 again. We told Edison and the PUC that their
25 effort was doomed. We were told don't worry about

1 it. Well, they lost. Let's not do it again,
2 folks; it doesn't make any difference that the ISO
3 is the one that proposes it this time. The
4 fundamental principles are the same.

5 And our concern is that instead of using
6 our own 399.25 to solve the problem, we're going
7 to wait for FERC to solve our problems instead of
8 biting the bullet and doing it ourselves. I don't
9 think we can afford that delay. We got to do it.
10 We have the tools to do it. Let's do it.

11 MR. FERGUSON: And now for an opposing
12 view we'll turn to Steve Kelly --

13 MR. KELLY: Actually not too opposing.
14 I had concerns early on on the trunk line
15 proposal, though I've applauded what the idea was.
16 I had concerns that FERC would adopt that. And I
17 was also concerned it would result in a long delay
18 in moving forward with new transmission, which I
19 think it did.

20 I guess my big question here is given
21 the various, the PUC and the legislative
22 initiatives to insure that there's a backstop
23 capability for these kinds of facilities, I'm
24 assuming that the transmission owners are not
25 going to delay moving forward on needed

1 transmission while this cost allocation issue is
2 being addressed at FERC through an ISO filing.

3 I think that would probably be not a
4 good thing. Because this is fundamentally dealing
5 with cost allocation, I'm presuming we have a
6 backstop mechanism. We ought to be able to go
7 forward with that. And if there's another
8 mechanism for allocating costs that is to be
9 determined down the road, that's fine.

10 So I guess I really would like to hear
11 some from the transmission owners or the ISO about
12 whether this initiative at FERC would result in
13 the delay of any needed transmission.

14 MR. AVERY: You've asked a great
15 question. If I look at San Diego it's not an
16 issue, meaning the transmission that we're
17 constructing is all network upgrade and the small
18 amount of facilities that aren't network upgrade,
19 we have the contracts in place to fully support
20 it.

21 As you look at other places, and the
22 position that we took when this first came about
23 was we don't support, or we did not support the
24 notion of build it and they will come. We believe
25 that it's appropriate to go out and permit

1 facilities, get ready to build it. And by the
2 time you get ready to build it you'll have the
3 contracts in place.

4 And I think that's ultimately going to
5 happen. I think you've heard Nancy say that
6 before.

7 I think in the case here, I know the
8 facilities that we've been looking at are probably
9 going to utilize some of the projects, the
10 facilities that we're contemplating here in the
11 Tehachapi and other areas.

12 But I applaud the ISO for trying to find
13 ways around this. I don't think anybody, and I
14 know that we are not, holding up anything in the
15 way of transmission and waiting for the recovery
16 mechanism out there. But I applaud the ISO for
17 trying to find innovative ways around this.

18 And I recognize what Nancy said, that
19 there are perhaps some ways in the state to get
20 around this. And it doesn't mean that we should
21 just drop one and pursue one. I think that we
22 should continue to look for all avenues to get
23 transmission placed, and to get the proper way to
24 allocate those costs.

25 MS. SMUTNY-JONES: Can I add one thing

1 from ISO.

2 MR. FERGUSON: If --

3 MS. SMUTNY-JONES: I'm sorry.

4 MR. FERGUSON: Go ahead, Robin.

5 MS. SMUTNY-JONES: I just want to add
6 that, Nancy, I appreciate your comments. I think
7 that I just want to reshape a little bit what our
8 effort would be before FERC. And I don't view it
9 as turning over tables of years of regulatory
10 process that has underpinned how transmission gets
11 approved. You would still have the basic approval
12 in place for economic or reliability reasons.

13 It's fundamental in that it hasn't been
14 viewed this way before, but I don't think I would
15 characterize it as completely turning over all the
16 tables. And it is just a way to find new creative
17 ideas.

18 I also agree with Mr. Avery that it's a
19 parallel track effort and there's absolutely no
20 intent or -- we don't believe and we don't wish
21 for this to be a delay. If anybody feels that
22 that will happen, you know, we need to hear
23 everything. And I'm sure we'll hear it all
24 tomorrow.

25 But I just wanted to kind of

1 recategorize what our effort at FERC would be. I
2 don't think it's turning over a bunch of tables.

3 MR. FERGUSON: If I can just comment.
4 The current plan that's now being looked at by the
5 ISO, I think, for Tehachapi, I think, avoids the
6 issue. If they proceed with the current top plan.
7 I mean there's a lot of them. But it's almost
8 certainly network, the network connection. And
9 probably avoids that.

10 There's a perception from a lot of us, I
11 think, that although the PUC did sign on the
12 decision about the use of 399.25, there are still
13 some problems about how that would be applied.

14 And there's a feeling that the PUC would
15 like to avoid having to invoke that clause if at
16 all possible. Perhaps you'd like to comment on
17 that, if you would.

18 ASSOCIATE MEMBER GEESMAN: Let me
19 possibly get at it --

20 COMMISSIONER BOHN: Can I have an
21 alternate question?

22 (Laughter.)

23 ASSOCIATE MEMBER GEESMAN: Nancy, it was
24 just a couple years ago that a different Southern
25 California Edison successfully persuaded the State

1 District Court of Appeal that this area was
2 preempted by federal law.

3 What would keep say a disgruntled PG&E
4 customer all of a sudden facing a spread of
5 Edison-related transmission costs under 399.25
6 from finding those old Southern California Edison
7 briefs and making the same pleading in front of
8 some other court?

9 MS. RADER: I wish my attorney were
10 here. I think they're different issues. The
11 issue in the court case was whether the PUC could
12 direct the utility to file at FERC to finance the
13 line. We agreed that the PUC's decision was
14 poorly worded. What it should have said was that
15 the PUC would order -- no, I'm sorry, the court
16 said you couldn't -- they could not order the
17 utility to finance the line directly.

18 And we felt that the PUC should have
19 said, we order you, Edison, to go to FERC and file
20 to finance the line. And the linkage was to
21 direct the PUC and ordering them to -- clearly
22 what was not a jurisdictional.

23 This issue, though, is entirely
24 different. It's whether the state wants to
25 provide the utility with assurance that if it

1 volunteers to finance the network upgrade, that we
2 will pay it back if the generators don't show up.

3 It's really a voluntary, it's completely
4 voluntary. And it doesn't step on any
5 jurisdictional toes. I think the issues are
6 entirely different.

7 MR. FERGUSON: Other comments? Would
8 somebody from the audience like to comment? I
9 mean this is an issue we're going to be discussing
10 at length tomorrow, so the more suggestions we got
11 going in, the better we like it.

12 My own feeling is that it's a matter of
13 states' rights. I think we ought to make it a
14 states' rights issue. The ISO is now, you know,
15 thoroughly engaged, and happily so, with the
16 renewable program.

17 And my feeling is if, you know,
18 collectively we decide that this is a needed part
19 of the grid to implement our program, the state
20 ought to have the right to do that through the
21 usual cost recovery tariff mechanism, and that the
22 federal government has no business telling
23 California what it can and cannot put in its
24 tariff.

25 I got to thinking about the whole issue

1 of proactive planning. And, you know, basically
2 you heard the usual reasons that we can build a
3 line and put it in the tariff, and they're all
4 reactive. I mean, you know, if a generator comes
5 and wants to interconnect, then, you know, we can
6 figure out what they need and allow them to build
7 the interconnection facilities.

8 Or if, you know, the grid gets congested
9 we can wait until it does and then relieve the
10 congestion. Or if it becomes unreliable we can,
11 you know, make it more reliable. But they're all
12 reactive.

13 And what everybody's been talking about,
14 the big mantra now is that we need to do proactive
15 planning. We need to get ahead of the curve.
16 When you stop and think about how you're going to
17 do that, how are you going to know what to build.

18 Well, you've got load forecast, you
19 know, we have some idea of what the loads are
20 going to be ten years down the line. But that's
21 only half the equation. The other half is you got
22 to know what supplies you're going to want.

23 And, you know, if you're going to do
24 proactive planning you're going to build
25 transmission lines to where you want to get your

1 supply out of. And, you know, basically that's
2 what we're trying to do at Tehachapi and, you
3 know, that would be the use of this option, if we
4 get it, from FERC.

5 So to my mind, I mean that's really sort
6 of the issue. Is FERC going to let the states do
7 proactive planning? Are they going to let the
8 Western Governors plan a line up to Wyoming to get
9 coal and wind out of Wyoming? Are we going to
10 build at Tehachapi, you know, on and on.

11 I mean, even Palo Verde-Devers, I mean
12 that's a goal to be able to access generation in
13 Arizona. So, the only difference is that
14 theoretically the trunkline proposal, the power
15 only goes one way. And at least theoretically
16 sometimes California could be sending power east
17 to Phoenix or someplace on PV-D-2.

18 But anyway, personally I think we ought
19 to get it out of the realm of sort of legal
20 nitpicking and try to present an image of what it
21 is that we're trying to do. And, you know, argue
22 that, you know, as a state we ought to be able to
23 have the right to do that, and to use the tariff
24 like an ordinary project. Anyway, now I got my
25 editorial in.

1 ASSOCIATE MEMBER GEESMAN: I think
2 that's more compelling on a political level than
3 on a legal level, because I think the ISO is a
4 federal regulatee and actually has better standing
5 with FERC than a state government would.

6 I think the other -- the FERC
7 Commissioners may respond to your states' rights
8 arguments, but I suspect the FERC Staff and ALJs
9 would look at the ISO as a more compelling
10 applicant than state government.

11 MR. KELLY: Two prong, two prong. My
12 sense is that there are mechanisms to provide
13 assurance to the regulated utilities for cost
14 recovery today, as the backstop.

15 I mean I -- so I wouldn't want any
16 transmission construction to be delayed while this
17 FERC thing is played out. FERC's policies have a
18 lot of important principles; it's a national
19 policy; there's a lot of history there which is,
20 quite frankly, going to be difficult in many cases
21 to change. And I think we found that in the
22 trunkline proposal, that there are reasons why
23 FERC decides what it wants to do.

24 In this case, this fight at FERC, or
25 debate at FERC could take some time, up to a year.

1 And I'm hopeful that we will move forward with the
2 needed transmission during the interim while that
3 works itself out.

4 And once they determine the cost
5 recovery mechanism then we can deal with it. But
6 we shouldn't be an impediment to building the
7 infrastructure.

8 MR. AVERY: And, again, I don't believe
9 it is. Even at Tehachapi I don't believe it is.

10 MR. FERGUSON: There were two other
11 questions, to move on, we're running a little late
12 here. There was a question about the TRCRs, the
13 transmission cost ranking reports. And kind of a
14 related question about how to modify the current
15 transmission interconnection process so that the
16 new additions to the grid -- new generators can
17 get access.

18 The two are very much related, and we
19 can talk about them together or separately, if you
20 want.

21 But, you know, the issue on the TRCRs,
22 and we have argued on behalf of CEERT at the PUC
23 about this issue, is that the question is what
24 assumptions go in when the TRCRs are prepared.
25 And the argument is that, you know, basically the

1 utilities are treating the new generation as if
2 it's in addition to everything that they are now
3 buying.

4 And for example, you know, if a
5 generator from southern California is going to
6 want to use the line, Path 22 -- Path 15 south to
7 north offpeak. Since that's already congested,
8 well, we're going to have to build another upgrade
9 to Path 15. And therefore the cost of that
10 upgrade, the next upgrade is going to be held
11 against the generators in southern California that
12 want to bid into a PG&E process.

13 And, you know, our argument is that
14 that's not the way the grid works; it's not the
15 way the grid is dispatched. And that to require a
16 Tehachapi generator to upgrade Path 15 is patently
17 ridiculous. So we go round and round. In the
18 end, the ALJ at the PUC says, well, PG&E says this
19 and you guys say that, and I don't know what the
20 answer is, so we'll just stick with the status
21 quo. And there we are.

22 I think question number 8 is pretty much
23 related, because the assumption is that, you know,
24 Path 15 is congested -- and I'm just picking on
25 Path 15 because Chifong Thomas beats me over the

1 head with it every day. But it is the same kind
2 of argument, that they're already users that are
3 sending power up north on Path 15 offpeak. And by
4 golly, nobody else gets to use that. Certainly
5 not a Tehachapi generator because it's already in
6 use.

7 And so the way you look at it is sort
8 of, you know, the TRCR is the end result. And to
9 tell you the truth, I don't know enough about the
10 rules at the ISO work, how they work, but clearly
11 these are a problem. And I think that the staff
12 is looking for some guidance about, you know, ways
13 to deal with this and maybe change the current
14 TRCR process, or at least change the way, you
15 know, maybe get an outside evaluator to evaluate
16 the things and see if they're accurate reflection
17 of reality or whatnot.

18 Would the ISO like to comment on this
19 first? Dave, Robin? How are you going to ask a
20 good question if people don't want to answer it.

21 MS. SMUTNY-JONES: I'm not capable of
22 addressing the transmission interconnection
23 question, so I don't even want to try. Dave, is
24 this the right group of people sitting here?

25 I think maybe we need to table that for

1 tomorrow, a side discussion.

2 MR. FERGUSON: Anybody want to --

3 MR. AVERY: I'll be happy to address it.

4 This becomes perhaps more of the chicken-and-the-
5 egg syndrome again. To the extent that I have a
6 contract with a renewable developer and that
7 contract makes sense to me, then any ancillary
8 transmission that's required in order to
9 facilitate that's going to be taken care of.

10 It's either going to be taken care of
11 from the standpoint of the network upgrades that I
12 make, or it's going to be taken care of by
13 generator interconnect facilities that the
14 developer takes care of.

15 And if there are third-party upgrades
16 required on Edison's system because of part of
17 this, then in the process that we go through, the
18 facilities may be advanced by the developer, but
19 they're going to be refunded when they go in
20 service.

21 And I have not encountered any problems
22 with any of the generators that I've been dealing
23 with with respect to this.

24 MR. FERGUSON: But I think the question
25 is do the existing users of the line, whether it's

1 SWPL or Path 15, do they have a right in
2 perpetuity to that line that prevent a new
3 generator from using the line that require the
4 upgrade, no matter who builds --

5 MR. AVERY: Well, you have to keep in
6 mind that, first off, they do not have an
7 exclusive right to those assets. They don't have
8 any kind of historical right there, other than
9 some contracts that exist under the ISO that deal
10 with existing transmission rights.

11 But of the ISO-controlled facilities,
12 those facilities are open for the use of the ISO
13 customers. Now, if it relates to a new generator
14 that adds congestion to the system, and a network
15 upgrade is required, that network upgrade is
16 ultimately made by the utility, or perhaps a
17 merchant transmission entity.

18 And those facilities are reimbursed at
19 their network upgrade cost. They are not borne by
20 the individual wind developer or geothermal
21 developer or anybody else, for that matter. So
22 they should not be viewing this as an obstacle
23 towards the development of those types of
24 resources.

25 MR. FERGUSON: Other comments? Nancy.

1 MS. RADER: Well, it has been an
2 obstacle, for example, between PG&E and
3 Tehachapi,, where the entire cost of a Path 15
4 upgrade was being tagged, was being charged to --
5 in a bidding evaluation process, to the renewable
6 generators. Even though that upgrade would have
7 many other benefits beyond accommodating that
8 generator.

9 MR. AVERY: But you're not suggesting
10 that that generator then had to bear that cost.
11 Those costs became network upgrades --

12 MS. RADER: Right. It's just in the bid
13 evaluation stage --

14 MR. AVERY: And I think that's -- I
15 think that is part of the process for looking at
16 any development. If any utility or any LSE has an
17 opportunity to secure a megawatt from one
18 developer and a megawatt from another developer,
19 and one of them requires no network upgrades and
20 no additional costs, then that is the way the
21 evaluation is done.

22 If another one requires massive upgrades
23 in order to accommodate it, then it has to be
24 looked at --

25 MS. RADER: I agree, I --

1 MR. AVERY: -- into the overall picture.

2 MS. RADER: I agree. The problem is
3 that we were being given all the costs without
4 recognizing that there are benefits to other
5 people for which we are not getting credit. In
6 other words, there was no netting of the benefits
7 associated with the cost of that line.

8 But let me just say that I think we have
9 a work-around; we got work-around just before
10 PG&E's 2006 procurement plan was finalized, where
11 PG&E agreed that it would use the lesser of that
12 bid adder, or the cost of remarketing the power
13 from southern California to, you know, elsewhere.

14 So, I think we do need to fix the TRCRs,
15 but we do, I think, have a work-around that should
16 be good for any area as long as you can get your
17 power into the ISO grid.

18 MR. KELLY: It sounds like we're talking
19 about two things. One, bid evaluation; and then
20 actual transmission access. And those are very
21 different animals here.

22 I think in terms of the transmission
23 access that the Path 15 is a good example of why
24 the concept of a RECs is helpful because you avoid
25 this issue as long as you can integrate into the

1 grid in southern California. And then you've got
2 a RECs trade with PG&E in northern California.
3 You can facilitate this and it doesn't place the
4 burden on the next incremental generator, I think.

5 MR. FERGUSON: Well, I guess I'm still
6 not understanding. I mean I understand the bid
7 evaluation process, which is what the TRCR is used
8 for, but I guess I still don't understand this
9 issue that well, the line is full and therefore
10 you can't interconnect.

11 I mean when somebody applies for
12 interconnection they don't need to tell who their
13 contract is with. They don't even have to have a
14 contract. So, in principle, somebody from
15 Tehachapi could interconnect without knowing
16 whether their power was going to be sold north,
17 south, east or west. And, of course, the power
18 doesn't follow the money anyway.

19 So, I'm still scratching my head about
20 this question number 8. That to the extent that
21 the current transmission users can prevent new
22 entries. But you say it doesn't happen?

23 MR. DASSO: Yeah, I just want to add
24 onto that what Jim had said, it really doesn't
25 prevent that as part of an overall evaluation of,

1 you know, the total cost of a particular -- I mean
2 it's really to help determine what is the total
3 cost of a particular bid for evaluation.

4 It doesn't prevent the entry of a, you
5 know, individual project. And, again, as Nancy
6 mentioned, it's really around how do you go about
7 considering those real transmission congestion
8 issues, and how you go about evaluating bid.

9 The primary aim behind the TRCR was to
10 provide transparency into where is it less costly,
11 or least impactful on the grid to connect
12 generation. And also to help guide the overall,
13 you know, total cost of potentially a potential
14 bid.

15 It doesn't, you know, when you take it
16 down to the individual generating unit, that cost
17 of Path 15 is not going to be, -- you know, a Path
18 15 upgrade is not going to be placed on that
19 generator to deal with.

20 And, again, it doesn't prevent that
21 individual generator from coming online. It's
22 really more a matter of helping understand the
23 total cost and total impact of, you know, where
24 the generation's being located.

25 MR. FERGUSON: Dan.

1 MR. ADLER: Let me just ask maybe a
2 clarifying question. Take an isolated incident
3 with one new renewable generator being added to a
4 full line. Why, as a matter of state policy,
5 would that new renewable generation not get
6 priority such that some existing fossil generation
7 is bumped off, as a matter of policy?

8 MR. FERGUSON: Well, as a matter of law,
9 I mean --

10 MR. AVERY: Well, I think actually it's
11 a matter of FERC regulation that does not provide
12 for that. Everybody is afforded an equal and open
13 access to the grid.

14 And to the extent one new generator
15 comes on, he's not afforded the opportunity just
16 unilaterally to bump another generator. However,
17 from an economic dispatch standpoint, renewables
18 are dispatched first.

19 And so, I mean, in reality, from an
20 economic standpoint, the older, less efficient
21 fossil plant is essentially congested because of
22 the new renewable resource.

23 And the same thing would happen if a new
24 combined cycle plant located on top of an older,
25 less efficient power plant. They would, in

1 essence, bump them in the economic queue and the
2 congestion would be realized by the more
3 expensive, less efficient generator.

4 But from the standpoint of just giving
5 priority, federal law preempts that. Federal law
6 does state that you cannot give a unilateral right
7 to one entrant to bump another one. But economics
8 does it by default.

9 MR. ADLER: Because that seems to be
10 hidden within question number 8. This notion that
11 the loading order can somehow trump federal law in
12 that regard.

13 MR. DASSO: The other thing I wanted to
14 add is also as you look at the impacts of where
15 the generation is being located and how that
16 affects the TRCR, it provides guidance in terms of
17 where you ought to be making transmission
18 upgrades.

19 And I guess one of the points that we
20 wanted to make is that there are several upgrades
21 that have become very apparent going through the
22 RFO process. As Fong mentioned, sort of using the
23 RFO process to really guide where it is that you
24 ought to be building transmission.

25 So, there are, through that process PG&E

1 has identified several upgrades in the northern
2 part of the system to access renewable resources
3 in the northern part that are relatively low cost,
4 and, you know, easy to do; relatively short time
5 period, you know, two to three years type of
6 thing, with substantial benefits.

7 Without some starting point in terms of
8 where are your congestion points and where are
9 your actual resources, you're kind of shooting in
10 the dark in terms of where you should be pursuing
11 your transmission upgrades.

12 Specifically one of the other projects
13 that we proposed in our expansion plan was a
14 project called Midway Grade, which essentially
15 addresses some of this congestion issue on Path 15
16 from the south-to-north flow. It also addresses
17 reliability issues in the Fresno area. And it
18 also addresses reducing reliance on reliability-
19 must-run generation.

20 So, again, using this type of tool we
21 can target where our expansion ought to go. And
22 that was kind of the aim. It was also to provide
23 some information to the generator in terms of
24 where are easy places to go where you're not going
25 to run into these congestion issues.

1 ASSOCIATE MEMBER GEESMAN: Have the TRCR
2 cost estimates been an accurate predictor of
3 ultimate upgrade costs?

4 MR. DASSO: From our perspective it's
5 really kind of a relative. It's really designed
6 to be relative. So, --

7 ASSOCIATE MEMBER GEESMAN: The best
8 information you have at the time.

9 MR. DASSO: -- to the extent that
10 they're based on unit costs or maybe generic
11 reconductoring or line construction, they are
12 applied uniformly to all of the proposals that are
13 being evaluated.

14 So, they do, from a kind of a generic
15 perspective, provide a relative cost.

16 ASSOCIATE MEMBER GEESMAN: But you
17 haven't had enough experience with them to
18 actually have an empirical database that would
19 tell you whether they're an accurate predictor of
20 what the ultimate upgrade cost is or not?

21 MR. DASSO: No, because again often, you
22 know, when you actually get down to it, you have
23 to really study the individual project. And
24 ultimately you have to look at the specific
25 interconnection facilities that are necessary for

1 that particular project, for that particular time,
2 with that particular position in the queue.

3 So, you know, at the end of the day you
4 have to look at it project-specific. But, again,
5 it does provide a good relative perspective.

6 MR. AVERY: The only thing I was going
7 to add to that is if you look at what's been
8 happening to the steel market, no estimates that
9 have ever been created --

10 MR. DASSO: Sure.

11 MR. AVERY: -- are ever all accurate.

12 MR. DASSO: Sure.

13 MR. KELLY: Dan, if I could respond to
14 your question from a developer perspective, I mean
15 one of the things that developers want when you're
16 about to drop \$250 million into an investment is
17 some measure of regulatory certainty; your ability
18 to get your product to market.

19 And if the renewable developers thought
20 about this for a nanosecond, you know, today the
21 renewables are preferred against gas; next year
22 it's going to be geothermal versus wind. And the
23 year after that it's going to be geothermal from
24 point A versus geothermal from point B.

25 And that kind of priority is problematic

1 for people to try to develop very expensive
2 projects. They want to see some measure of
3 certainty. And the FERC rules actually provide
4 some of that.

5 MR. AVERY: I'm looking forward to the
6 day when we're fighting about which renewables we
7 get to take.

8 MR. FERGUSON: I'm not so sure we're
9 that far away, Jim.

10 (Laughter.)

11 MR. FERGUSON: We should talk about
12 those Stirling contracts.

13 (Laughter.)

14 MR. TAM: My name's Gil Tam; I'm the
15 Director of Contracts with Southern California
16 Edison, responsible for interconnecting all the
17 generators in our grid. And I can't fly 300
18 miles, 400 miles up here and not say something, I
19 guess.

20 (Laughter.)

21 MR. TAM: I just wanted to maybe add
22 some clarity to it. I think a lot of you probably
23 got it. There's two issues here we're talking
24 about. One is interconnection of a wind generator
25 to our grid. And then also dispatching resources.

1 Interconnection to the grid is based on
2 a queuing process that is dictated by FERC. And
3 in order to connect a generator they must relieve
4 any congestion or system reliability concerns.
5 And they would have to fund the -- provide upfront
6 funding of the transmission upgrade. And then
7 within a five-year period then they get reimbursed
8 back. So in essence the IOU or utility, through
9 the TAC rate recover those costs.

10 Once they're connected then dispatching
11 is basically, I think someone already talked
12 about, basically whoever's the low cost and bid
13 into the ISO and get the energy generated and
14 produced, and so.

15 So, I think, I just want to make sure
16 that point is clear. So, once you're connected,
17 there's no FERC regulation to prevent anybody
18 selling the energy to the market; depends on who's
19 the low-cost provider. Just wanted to --

20 MR. FERGUSON: Well, let me throw this
21 question out. Are you all in agreement that the
22 TRCR should only reflect costs that are required
23 by the ISO for interconnection? Cost the facility
24 that are required by the ISO for interconnection.

25 MR. TAM: I don't think that's the issue

1 right now.

2 MR. FERGUSON: Well, I mean, are there
3 other costs --

4 MR. TAM: You mean the network --
5 (Parties speaking simultaneously.)

6 MR. FERGUSON: -- put in your TRCRs that
7 are other than costs that are required by the ISO
8 for facilities to interconnect.

9 MR. DASSO: The ISO reviews all of those
10 -- reviews that specific interconnection plan.
11 So, if we -- ultimately we come to agreement with
12 the ISO as to what it is that's necessary in order
13 to connect that particular generator.

14 MR. FERGUSON: What I'm saying is it
15 only those costs that should go into TRCRs.

16 I mean the Path 15 upgrade would not be
17 required of a Tehachapi generator merely to
18 interconnect to the grid, for example.

19 I mean I'm just trying to get some
20 principles about what these TRCRs should be doing.

21 MR. DASSO: Yeah, again you're sort of
22 mixing issues, I think. And the TRCR was intended
23 to provide a picture of the grid as it exists
24 today for purposes of evaluating incremental new
25 generation connecting. And that was the purpose,

1 intended to provide some transparency for
2 developers as well as the utilities for evaluating
3 overall costs for bids.

4 However, the specific project, you know,
5 has to be looked at on its own merit when you're
6 looking at the actual interconnection cost.

7 MR. KELLY: But I think -- is it the
8 interconnection at the buss bar, or is it what it
9 would take to deliver to, for example, a load
10 center?

11 MR. FERGUSON: Which brings in the whole
12 question.

13 MR. WAN: Because I think you're asking
14 a question that crosses over to bid evaluation,
15 selection process --

16 MR. FERGUSON: It's the TRCR --

17 MR. WAN: -- not just the transmission
18 upgrade. If PG&E is evaluating a Tehachapi
19 project what we are supposed to do with that power
20 is to wheel it to northern California or central
21 California to serve our load.

22 And because of that wheel we have to
23 consider the Path 15 upgrade. We currently don't
24 have a program where I can dump the power
25 somewhere else and take the RECs with it. That's

1 part of the issue.

2 Now, to answer your question directly,
3 we use this TRCR for the short list evaluation
4 process as to whether we will sign this particular
5 contract; we are still carefully looking at the
6 topic you brought up.

7 MS. JONES: Can I ask a clarifying
8 question.

9 MR. WAN: Yes.

10 MS. JONES: When you do TRCRs when
11 evaluating the RPS bids. Do you use TRCRs in
12 evaluating all-source bids?

13 UNIDENTIFIED SPEAKER: Don't think so.

14 UNIDENTIFIED SPEAKER: I can answer for
15 us.

16 (Laughter.)

17 MR. PIZARRO: We're back. In the case
18 of SCE I think, like Fong was saying, we view the
19 TRCR as a tool that's really been developed for
20 renewables. And it helps expedite the process.
21 So that's a lot of the value. You don't have to
22 wait for all these system impact studies, et
23 cetera, to make a procurement decision.

24 So frankly that's an advantage that
25 we're conveying to renewables in our process. I

1 think part of providing the rebuttal presumption
2 and preference.

3 In the case of our all-source, for
4 example, with a new generation RFO that we expect
5 to launch shortly here, assuming a final decision
6 from the PUC, we will not be using TRCRs, but in
7 fact, we'd be relying on full studies out of the
8 ISO prior to our signing contracts.

9 And in fact, that's what we have a
10 faster condition for contracts that are already --
11 for projects that are already down the path of the
12 interconnection process, -- permits in hand. But
13 we have those studies available and can
14 incorporate them in our bid evaluation versus our
15 standard tract, which will take longer -- for
16 projects that would be more greenfield or earlier
17 in the process, and we'll need to go through the
18 ISO application process interconnection queue and
19 the development of those studies.

20 So, I don't know if that helps from an
21 SCE perspective.

22 MR. FERGUSON: So you're saying the
23 TRCR, so you're a proxy for --

24 MR. PIZARRO: Yes, it is a proxy --
25 (Parties speaking simultaneously.)

1 MR. PIZARRO: That's right, it is a
2 proxy and it helps to facilitate the speeding of
3 the renewable process.

4 MR. WAN: Melissa, in terms of all-
5 source solicitation, we actually went through a
6 much more rigorous program. We asked each of the
7 bidders to commission a system impact study with
8 the grid side of the business. And that study is
9 done by us. And then also approved by ISO. So it
10 is an exhaustive study before we would actually
11 commit to that.

12 Whereas the renewable program, as we
13 just described, we're trying to shortcut part of
14 that.

15 MR. FERGUSON: Okay, we need to move on
16 here, we're running late. But, so I think we
17 understand how the TRCRs are used. But, it brings
18 back this question about what all should go into
19 it, because what you're saying is it's not all
20 just a question of interconnection, but it's also
21 the cost of relieving constraints should also go
22 in the TRCRs. And that's where we part company.

23 Everybody, we would agree, I mean I
24 think everybody would agree that, yeah, the
25 interconnection costs have to get rolled into the

1 bid price one way or another.

2 But this whole question about, you know,
3 because there's a constraint on the line and you
4 want to transport power across that line, then
5 you're responsible for upgrading the line, is not
6 how the ISO works to relieve constraints.

7 I mean at most you can say, well, it's
8 going to go into the ISO constraint relief
9 process, and you know, INCs and DEC bids, or
10 whatever the hell they're using these days.

11 So, it is a really sore point for the
12 generators about, you know, what, you know, about
13 how congestion in the grid affects your ability to
14 absorb a new project. And what they would have to
15 do to, you know, to solve that congestion.

16 So, this was a great question that was
17 on here. I don't think we have time -- be happy
18 to respond, but --

19 MR. AVERY: Yeah, unfortunately I have
20 to leave, but I just want to give one comment on
21 that.

22 As it relates to network upgrades, as
23 those are made, to the extent that a generator had
24 funded any of that, they are returned that money
25 plus interest. And so it has not, in our

1 experience, hindered the development of any of
2 that generation.

3 So to the extent that we had a project
4 that required an upgrade of Path 44 or Path 43,
5 and we made the decision to go ahead with that, we
6 may make the case that that is something that is
7 required in order to facilitate that project we'd
8 pursue it, ourself. Or if a generator was going
9 to advance it, they would be refunded that money
10 once they went into service. And, again, I don't
11 think that jeopardizes the project at all. So
12 there's ways to do it.

13 MS. JONES: So, let me ask a question
14 now. It could kick a bid out of being selected
15 because of the total cost of the bid. So, that
16 bid would never get to be a project and would
17 never incur any costs.

18 MR. AVERY: In the bid evaluation
19 process I can tell you that we have had some
20 projects that the network upgrades that were
21 required were very very extensive. So, what we've
22 tried to get through to get around that is to look
23 at ways that perhaps helping them identify a
24 different way or different location to locate.

25 But if it's going to take \$400 or \$500

1 million to connect a \$50 million wind project, it
2 probably shouldn't be selected, if that's all that
3 could be developed there.

4 MS. RADER: Can I just say again that I
5 think as a practical matter this isn't a big
6 issue, at least for interzonal transfers, because
7 of the PUC decision that says the utilities can
8 take delivery outside their service territory,
9 remarket the power and keep the credit. We won't
10 call them RECs, we'll call it the credit.

11 So, as a practical matter the TRCRs
12 aren't that much of a bid deal. I mean we still
13 don't like them, but as a practical matter if you
14 bid to deliver in a different service territory,
15 you should be evaluated accordingly and not be
16 tagged with the bid adder.

17 (Laughter.)

18 ASSOCIATE MEMBER GEESMAN: Who's next?

19 MR. ADLER: Let me take this opportunity
20 to make a different point about transmission.
21 Since I've sat through a TRCR conversation, I
22 think I'm entitled.

23 It's also, the transmission system is
24 also a tool for technology development. It's
25 clear that where we are today with our renewables

1 portfolio, we're going to use these technologies
2 for the next four or five years. What happens
3 next?

4 And from the standpoint of what you can
5 call the first megawatt problem, it's very
6 important that new technologies, be they
7 concentrating photovoltaic or vertical wind
8 turbines or new biomass technologies that are
9 coming along, that the RPS program embrace them
10 and give them the opportunity to demonstrate for
11 the marketplace that they work; the first megawatt
12 can run; can produce up to performance standards
13 for a full year. And then those entrepreneurs and
14 technologies can get project financing and become
15 the next generation of large-scale renewable
16 projects that we're going to need in the outer
17 years of our stretch goal.

18 So, somewhere in the grid planning
19 process there should be a little carve-out for
20 technology demonstration if we're going to hit our
21 long-term goals.

22 MR. KELLY: Why isn't that a PIER
23 program thing?

24 MR. ADLER: That's an excellent point.
25 I think it should be; I think it increasingly is.

1 They do demonstrate --

2 MS. SMUTNY-JONES: Dave is croaking over
3 here that it is.

4 MR. ADLER: They do demonstration
5 finance. The question is, is that demonstration
6 finance tied closely enough to the year-long
7 performance data that is then bankable. I'm not
8 sure it has been in the past. But I think that
9 the PIER program is now more attuned to that as a
10 market support mechanism.

11 MR. FERGUSON: Since Calwell isn't here,
12 I think we can take up question 7. Strategies to
13 address the current ISO interconnection queue
14 process which may be preventing successful
15 renewable generation projects from being
16 constructed.

17 This is a hot-button issue, but there
18 was an accusation that there were some people in
19 the queue who did not have contracts, and that
20 somehow they were occupying queue space that
21 should otherwise be forfeited to projects that
22 already have utility contracts.

23 Since PPM Energy has a project at the
24 front end of the queue without a contract, they
25 were feeling especially -- is this a problem, or

1 is this not a problem that we need to deal with?

2 Robin? Dave?

3 MS. SMUTNY-JONES: I think we don't
4 believe it's a problem. And others may have other
5 opinions, but tomorrow we will have the right
6 folks from the ISO that can, in a very detailed
7 fashion, address these kinds of questions, the
8 queuing questions in the interconnection process.

9 MR. KELLY: Well, I guess I'll take this
10 up tomorrow, but it seems to me that we need to
11 look at whether or not there are some semblance of
12 milestones as you sit in the queue.

13 I mean if the interconnection costs are
14 a function of everybody in front of you that might
15 be sitting there latent, as it were, we need to
16 figure out a way to make sure that the viable
17 projects can move forward in a timely manner.

18 So, I don't know what your process has
19 today for that, but there needs to be some
20 discussion of that, I think.

21 MS. SMUTNY-JONES: Yeah, one point that
22 he's channeling to me -- one point that Dave
23 makes, which is a good one, is that that's part of
24 what motivates the ISO to do a more comprehensive
25 plan and look at the grid.

1 MR. FERGUSON: Did he just say something
2 else?

3 (Laughter.)

4 MS. SMUTNY-JONES: No, just the southern
5 California and the northern California sort of
6 regional, looking at things all together to see
7 what makes sense, rather than just one at a time.

8 MR. FERGUSON: Are there people in the
9 room that think this is a big problem that needs a
10 solution? I don't know where this ever popped up,
11 to tell you the truth. But it was kicked around.

12 The last question was focusing state
13 research and development efforts on issues
14 surrounding wind integration basically.

15 And there are a whole bunch of projects
16 going on, so I'm not quite sure what guidance the
17 Commission was looking at when they asked this
18 question, but Dave has been working on this
19 problem for a year or more. And we haven't killed
20 him yet --

21 MS. SMUTNY-JONES: Yeah, look what
22 happened to him.

23 (Laughter.)

24 MR. FERGUSON: And I know the Commission
25 also has a project under contract that's now

1 ongoing. So, somebody want to comment on this
2 question? Is this -- I know it keeps coming up
3 and, you know, the question about how much
4 ancillary services are going to cost. You know,
5 if we have 4000 megawatts of wind in Tehachapi
6 turning on and off every couple hours, you know.
7 Anybody want to comment on that? Robin for Dave?

8 MR. HAWKINS: I'll give it a try. The
9 research -- I can't do it -- research --

10 MR. FERGUSON: Totally agree with you,
11 Dave, that was excellent. Well spoken.

12 (Laughter.)

13 MS. SMUTNY-JONES: Okay, I think what
14 he's trying to say is that this requires a lot of
15 research and there needs to be a lot of focus on
16 studies that take a good look at what are the
17 consequences of wind integration.

18 I can say, from a policy perspective,
19 the ISO sometimes is the skunk at the party to say
20 there's all these issues that happen and you need
21 regulation. We'll probably still come and say
22 that, but I can also say that we're very committed
23 to overcoming whatever those issues are, and we
24 feel confident that we will.

25 ASSOCIATE MEMBER GEESMAN: Yeah, we're

1 committed to funding a lot of research in this
2 area. We recognize this problem is not going to
3 go away in a couple of years. We've got a lot of
4 research underway now, but we envision continuing
5 it for a number of years.

6 MR. FERGUSON: And there's an upcoming
7 workshop, I believe? You might want to --

8 ASSOCIATE MEMBER GEESMAN: Yeah, I don't
9 know the calendar. Dora, when is that?

10 UNIDENTIFIED SPEAKER: August 15th.

11 ASSOCIATE MEMBER GEESMAN: Okay.

12 MR. FERGUSON: August 15th, okay.

13 UNIDENTIFIED SPEAKER: In the same room
14 from 9:00 to 5:00. And (inaudible) to talk a
15 little about that.

16 MR. FERGUSON: Everybody get that?
17 August 15th, all day here, to talk about wind
18 integration.

19 UNIDENTIFIED SPEAKER: We'll try to end
20 it at 5:00.

21 MR. BESHIR: I just wanted to mention
22 from LADWP's perspective, we have not really
23 engaged in the major research aspect, but some of
24 the wind projects we are looking at at the
25 Tehachapi are going to be integrated with a

1 transmission system which already carries
2 hydropower plant. So we do see a big marriage or
3 synergy integrating wind with hydro plants.

4 And we are working on a control
5 mechanism to see how we can play wind with the
6 hydro, which has some reservoir capacity, so that
7 we, for one, would be able to (inaudible) the
8 wind.

9 Second, we also utilize the transmission
10 in a more equitable or more efficient manner.
11 Thirdly, DWP has a large pump storage facility.
12 And, again, we are looking at integration of that
13 system with a wind project we are building today.
14 And also some wind projects we are looking
15 forward.

16 So, in the future I think there may be
17 some things we're going to probably offering in
18 that area as far as from a practical manner.

19 MR. FERGUSON: Thank you, Mohammed.
20 Since you brought up the Castaic pump storage, I
21 suppose we should put in a plug for the LEAPS
22 project which we've also been looking at out at
23 the ISO.

24 It's a project in Orange County, I
25 guess, that the ISO would very much like to have.

1 the problem is the developers can't find a buyer.
2 And the reason is pretty simple, and that's that
3 we have no idea what the revenues to a pump
4 storage project would look like down the road.

5 So, it's about a what, \$750 million
6 project. And that's an issue that the Commission
7 might well take a look at, is, you know, if it's
8 not -- it would be enormously valuable to the
9 grid. Dariush wants it badly. But if it's not
10 commercially viable because of the current
11 structure of ancillary services markets and so on,
12 how do we make up that disconnect.

13 As Dariush says, if he owned the thing
14 and got to run it, he would actually destroy the
15 markets for ancillary services.

16 So, there's a little bit of a conflict
17 here between facilities that would really support
18 the grid and help renewables and all the rest, and
19 the current market structure that we have for
20 ancillary services.

21 So, that would be an interesting topic
22 for the Commission to spend some time thinking
23 about.

24 Any other comments? Any other questions
25 people want to raise? Or shall we all go have a

1 beer? Question, or should --

2 MR. BRAUN: My name's Tony Braun; I
3 represent California Municipal Utilities
4 Association. And in the vein of attempting to
5 make the meeting constructive tomorrow at the ISO
6 I thought I'd throw some issues on the table in a
7 point of clarification, and also to help the ISO
8 think about things overnight.

9 I agree with the way that Edison and
10 PG&E representatives distinguish between the
11 operational and dispatch elements of wind and the
12 procurement and interconnection elements of wind.
13 I'd, unfortunately, like to add a third element
14 which is directly relevant to recently adopted
15 state policies, and that is capacity counting.

16 As we all know, we have a resource
17 adequacy policy in various venues whether it's
18 adopted by the PUC, adopted through the State
19 Legislature, or adopted by our city councils. And
20 this involves capacity counting to meet prudent
21 planning reserve margins.

22 The ISO tariff currently has mechanisms
23 for measuring deliverability, whether that's
24 deliverability of imports or net deliverability
25 aggregate of grid for those generation units that

1 are inside the control area.

2 So I'm suspecting that when load-serving
3 entities invest in these resources, recognizing
4 that they're probably, for certain of them anyway,
5 not high capacity resources, nevertheless are
6 going to want some measure of trying to know how
7 to count them for capacity.

8 The ISO's rules, reasonably, because
9 units don't do us a whole lot of good if they're
10 not deliverable, discount for units that aren't
11 deliverable to the grid.

12 So how we're going to measure
13 interconnection policies and these are newly
14 adopted and uniform, frankly, fairly uniform
15 resource adequacy rules that are implemented
16 through the ISO tariff, I think, are very
17 important.

18 A second issue that I think the ISO, it
19 would be helpful to consider overnight, is the
20 mechanisms for how costs are allocated in the TAC
21 are complex. And they're not as simple as we get
22 high voltage new lines in one way and low voltage
23 in another way. And new facilities get rolled in
24 and spread statewide.

25 There's actually something called the

1 cost-shift cap. And when new facilities are
2 proposed by certain entities that aren't the
3 original participating transmission owners,
4 they're treated in a manner differently than if
5 they are proposed by the existing -- the original
6 three participating transmission owners.

7 So you could have a situation if you go
8 through one of the three, or two of the three, I
9 believe, cost allocation mechanisms that are
10 outlined in the whitepaper, a different outcome
11 depending on who the sponsor of the transmission
12 is. So I think that's something that needs to be
13 considered.

14 And, third, I'd like to throw out the
15 equitable nature of how this is going to affect
16 our partners in the rest of the western
17 interconnection. Right now it's not just
18 California entities that pay the ISO's
19 transmission costs. It is entities that use the
20 ISO-controlled grid, and that is a very wide
21 subset of entities throughout the western United
22 States.

23 And what we will be asking them to do,
24 if we do put the cost of these facilities into the
25 TAC, is to help pay for our state policies.

1 So, as --

2 MR. FERGUSON: If they want to use our
3 grid.

4 MR. BRAUN: If they want to use our
5 grid. And we hope that they do, or we'll have
6 bigger problems than meeting our RPS.

7 So, when we go forward and consider
8 these things, perhaps those are issues that can be
9 discussed more fully tomorrow. Thank you.

10 MR. FERGUSON: Thank you, very good. I
11 have word that Kevin Porter is on the phone and
12 would like to speak to the wind integration issue.

13 MR. PORTER: Thanks. I understand Dora
14 is in the room and she just provided you an update
15 on the August 15th workshop. So I think that
16 issue is now moot.

17 I just did want to point out that
18 someone mentioned this is just a wind integration
19 task. We're looking at all renewables and solar
20 will be definitely a part of it, especially with
21 the Stirling solar project and the solar
22 initiative that was spoken of earlier. So that's
23 something we'll be looking at as part of that.

24 I do want to say that we do have a
25 monthly call that we -- well, obviously we do

1 every month, that we update people that want to
2 participate on the call on the status of the
3 project.

4 I had to reschedule the call; it will be
5 sometime next week. If people want to contact me
6 directly to find out how to get on that call they
7 can do so at porterassociates.com, or they could
8 ask Dora, who I believe is still in the room.

9 Thanks a lot.

10 MR. FERGUSON: Okay, I didn't mean to
11 pick on the wind guys, I apologize.

12 MR. PORTER: Don't worry.

13 MR. FERGUSON: John, I think I'll turn
14 it back over to you, then.

15 ASSOCIATE MEMBER GEESMAN: Well, I want
16 to thank everybody for your contribution to what's
17 been a very content-rich afternoon.

18 Pam, can we give people a little bit of
19 relief on the deadline for written comments? We
20 had it originally posted as tomorrow, and I'm
21 wondering if we can spread that over to next week
22 sometime without --

23 MS. DOUGHMAN: Sure, that'd be fine.

24 ASSOCIATE MEMBER GEESMAN: Why don't we
25 make the deadline for written comments next

1 Wednesday, which I believe would be July 12th.

2 Again, I thank you all for your
3 participation and look forward to our next
4 workshop on this topic.

5 (Whereupon, at 5:32 p.m., the workshop
6 was adjourned.)

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